



1

SEQUENCE LISTING

<110> Sun, Yongming  
Recipon, Herve  
Salceda, Susana  
Liu, Chenghua  
Turner, Leah

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0247

<140> US 10/082,828

<141> 2001-10-29

<150> US 60/243,805

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<160> 266

<170> PatentIn version 3.1

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 cctgatgctg aaaccactgc tgctgcaacc actgcaacca ctgctgtctcc taccactgca 240  
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 gaaagaccag ttaattcact ttttaaaaat tacttcaaga gcct 644

<210> 19  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
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 atgggtgctc tgtcccttgc tggccctggc ctgagtgc tccccctctc tccctctgct 180  
 ctggccagggt gaggttctc ctccaggggt tttccacct ttgtgtgggt gtctcttcca 240  
 ccaaagagag cctcctgtt cccccaccac tccctgccag cctctgacct gtctgtgtct 300  
 ccagctcttc ccagaagccc tccctggcag ctctgtcct cctctgctgg atcctgtgag 360  
 caccacagcc tctgtacac cctgagctat gcctctcaag gccctccacc agctcatccc 420  
 ctgctgtggg cacaagccct gctttcagag tttccctgcc caggaatga atgcccttg 480  
 agagaccaca catatgctgc aagtccagcc ctgctcagag ccgttctttg ccaaataatc 540

accttggttat taaagagctg attgttctac tagactcttc tattcttatg gttcaccatg 600  
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<210> 20  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (270)..(313)  
 <223> n=a, c, g or t

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 tttgaagtac ctctgaattt acacataggg attccactca tgtaagcact cattgatttt 180  
 aagattttttc attcatcaaa agggaaaatg tgggctgcc a tatgtataat tttgtcatc 240  
 caaaaaagag atataaagtt aaaaattagn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnctataca tctgtttaga tgggaatggt gacgtggaag tgtatcactt 360  
 cctgtttttac gtccctgtgt aaaacaatca catttcctta ttgatgactg tttccaaca 420  
 gaaacgtaat catcttcaag gttagaaaat gttttttaaa taacttcaac cagcgtaaac 480  
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<210> 21  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (269)..(312)  
 <223> n=a, c, g or t

<400> 21  
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 ttgaagtacc tctgaattta cacataggca ttccactcat gtaagcactc attgatatta 180  
 agattttttca ttcataaaaa gggaaaatgt gggctgccat atgtataatt tttgtcatcc 240  
 aaaaaagaga tataaagtta aaaattagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
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 aaactgggtta attcaccaaaa atgttaacca aaattaacca aatcaaattt gggtttatttt 540  
 ccagggtctct tttttctttt cttttttcat ttttggagag atgggatctt gctatgttgc 600  
 ccaagctaaa atgcaacttg ttattcacag gcatgataat agtgccctat agcctcgaac 660  
 tcctggggccc acatgatcct cctgccttag cctcctgagt attcccaggt ttttcttaat 720  
 agtttaaaca ggtagttcct gggtttggct atcagatagt gctgtctaca ctaggctttg 780  
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 tgggagttgc ccggcgcgcg cacctcgccc acctgcaccc cccccgggc tccgcacccc 900  
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 gttccccg 968

<210> 22  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

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 actttgtaac acaggaattc tgcactcatt actgttttgg cattctcaag cccagttgg 120  
 ggcacacaag tgtttaatga gtatttaact gatttgcata agaataaatt cattgatttc 180  
 tttgattttt tgttgctggg ttccagtga aaaaatgtta tcagccgcac aacggtgggc 240  
 tcacgcctgt aatcccag 258

<210> 23  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
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 acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120  
 gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacacaaaa 180  
 gtgagtaaac aaaaaagaca atgccttagg gcagcagctc ccaaagtgtg ttccagtcct 240  
 gtagaccctc ttagggaccc tgttcacagt taatactaag atgggttaatt gcttttgcca 300  
 actttgggaa aagcacatct tgtttttttt tttaaactga catttgcat gataatacaa 360  
 aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420  
 agagtcttca ctgccatggc a 441



<210> 24  
 <211> 604  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
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 gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacacccaaa 180  
 gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240  
 gtagaccttc ttagggacct tgttcacagt taatactaag atgggtaatt gcttttgcca 300  
 actttgggaa aagcacatct tgtttttttt tttaaactga catttgcatt gataatacaa 360  
 aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420  
 agagtcttca ctgccatggv aaaagaaaga aagaaagtaa gagagagaga aagagaaagr 480  
 gagaaacaga gaaagagaga aaggaaaaga aagwtaagag aaaagaaaga aaggaaaaaa 540  
 aagaaagaaa aaaaaggaaa ggaaagggga aagaaaaaga aaagaaaaga aaggaaagat 600  
 tgaa 604

<210> 25  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
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 aggattttgt tggctcttgg agataatcca taaatacggt ctttgatact atgccc aaac 120  
 tctactgtac acttgtgagc aaatgagagt gaaaaaggca tataacgtct tagcattatg 180  
 aaaatagttt taactttgca gatccccctga gagggctcttg gggataccca gcagtccttg 240  
 aaccacagtt ttagaaagta ctctgggttta gatatgattt totttttctt tctattgtaa 300  
 aagttcaagt aaagtttatt tcctctatc ttattacaca agcatattaa caaaggaagc 360  
 taaaacaaag acagcagtct cagtactcag tatattttct attagt 406

<210> 26  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (65)..(65)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
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 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (83)..(83)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
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 <223> n=a, c, g or t

<220>  
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 <223> n=a, c, g or t

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 acttaccgcc tttcctggaa aatgtcccat gtgtacttgg gaaggatgtg tattctgttg 180  
 ttgttaggta cagtgttctg tgtgcctcgg taaatcaaata tggcttatcg tgccccttca 240  
 agtgct 246

<210> 27  
 <211> 190  
 <212> DNA  
 <213> Homo sapiens

<400> 27  
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 atggatcttg aaatattgac atttattaag gaaaactctt ccttagtaga aacatcattg 120  
 gaaagaccaa aataagtgtc tccatgaagc taggtaacgt cttattatta atattttttt 180  
 aaatcaggta 190

<210> 28  
 <211> 653  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (229)..(229)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (356)..(356)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (443)..(443)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (474)..(474)

<223> n=a, c, g or t

<400> 28

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catgtgggcta ttgattcagc ttatgttctc tagtgctggg cagggaggag ctgaccccca      120
tggttttgtt atgtgtgctg gttagggccc tgcattgccag tcaagctcct gtcctacagc      180
ctgcctgtgg gaggatctca gtgtgaggtc tggagccctg gaacgaggnc cacctgggct      240
cactctcttc atactggagc agggaaaggg cagagagagc tgcagaccgg aaagtggatg      300
gtctggggtc ggagtcgggc ccctgtcacc agctgtgagt cattaagcca gactcnaggc      360
taaggcttcc tcatctgtta aacagcgaca cgcagggggac tgctcatctt tcaggtgcga      420
ggttggggga gtgggtgggtg ggnacaggca tggttaactg catgtggaag gggntgttgt      480
tcttggggat ctggaagtca cacgtgggta taaactggga gcatgtgtgt gtttgtaaat      540
agtcttgctc cccaaaatat tctaatatag ctcaaacgca cgcacgtaag ccttcaagat      600
agaaatctgt gagtgaagaa aatgaggcaa agggaaaata agaaaagaca gct          653

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<210> 29

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (806)..(806)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (818)..(819)

<223> n=a, c, g or t

<400> 29  
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 aatacaggtc tgattatgta caattccaga aatatcatta attaatacacc actcattttt 180  
 aagatgtgtg aagactgtaa tattggctag tgaattttat cagtattaat atgcatagaa 240  
 cccacattcc tctttttgat ttgatgtatt atagcatgta tgtattgcta tttttctctt 300  
 tttttgaagt ggtgaggaat catgcacagt caatatgctg ggttccttta gaaatgactt 360  
 tagctcctgt ctgaaggcag gaaaaacttc tttttaagga actttcatca ttgcctttta 420  
 ctttttctat gatgggtttt atgagcactg aaatcacttg gagaggcaat gcaaagaaat 480  
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 gaagcttaat gcttccgaat attgacattg actccttggg tgaaattttg tccaaatata 600  
 aaattcttca tgttcaacaa ctaaatgtaa taaatgaatt tcatatatac ttacatgata 660  
 tctttgagat taaattaatt atccttttgt aggaactgac agctttgggt agattatttt 720  
 ttcagttgaa atgtgttgct aacaatatgc ttacacttga acgctgtttt tcatattgat 780  
 aggaagacac aaatttctca gggaancage tttgtganng aa 822

<210> 30  
 <211> 682  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 tacactttct tcttacttt cctcttttcc cattgtcctt ccttaaagac tagcagcagc 180  
 agaatttggg aaataaataa tgggcatggt ttgctaataa tcatgacaaa ctataataat 240  
 ctgttttgaa ttttacttgc ctgtttctaa attttggagt ctagagaact gctatcaaag 300  
 ggtaaaatat agtgattcac ctgcagtttt ggttacaggt ttcattattac ataataaagg 360  
 gagaacttga gccccacctt tccccagtg tattccttgc ataggcaacc tctgtgtctt 420  
 aaatgttttg gagactttgg gatgtctgat ttcaactgta cagtgaaca ggtagtggct 480  
 tgacttagta agcatctgaa ggactgtttt gttctactct tgcagagtag agtagttttc 540  
 aaaaggaaag gaaaggaatt gttgagtggg acctatgaag tatagcagga tggatagaat 600  
 atgaggcaga tgggtcctag tttgctaaag agcttgggcc gtctgataag ttgtctttct 660  
 tgccaaacaa ggaggtcacg tg 682

<210> 31  
 <211> 1498  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 tcctctgtct cagtgctct catcctctca ccttttacta tgggatgacc ctcaacagat 180  
 gccagtgtca tgttcttggc ctttcagtc ttcagaatca tgagccaaat aaatctcttt 240  
 tcttttactt aattactttt tttttttttt tttttagtag atgggggtctt attatgttgc 300  
 ccagggttgg ctgaattca tgggctcaag cgatcctcct gcctcggcct cccaaaatgc 360  
 tgggatttga agcataagcc accacgcccc gcgataaatc tcttttcttt aaaattatcc 420  
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 aggcagggaa gtaggcagga gggcaggaaa gaatgaagga aagggaacg aagagaggca 540  
 ggggaaggaa ggggtgtgga caggagggtg ggaaaggaag ggaagtgagg aaggagggca 600  
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 ccaagctctt tagcaaaacta ggacccatct gcctcatatt ctatccatcc tgctatacgt 780  
 cataggtecc actcaacaat tcctttcctt tccttttgaa aactactcta ctctgcaaga 840  
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 ttttgccata ccaccttgca aactctgtgt acctgatcaa tgtaatagtc ttttaccctc 1380  
 acattcggag agttttttaa atatgggagg tggccaggca cgggtggctca tgctgtaat 1440  
 ccactgcgcc cggccctaaa aagactatta aagcaagttt ctggattaat ctgagttg 1498

<210> 32  
 <211> 447  
 <212> DNA

<213> Homo sapiens

<400> 32

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cagatgtttg tgctagaagc tgtgggttta cgtctccttt gtgcatgtgt tccagacata      60
ccagtggcctt ggtattttaa catcatgctc aggtgtgcag ggtagttttt gagttataat      120
aggtatgcag gcgctgtggg attacttggg tgtttatgta aaaattatct tgcactcact      180
tctgaaatga gtgttagtag aatcatcttt agaggagggt ccaaggcatt gaactgagat      240
acctgcactg tttgctgtaa atttaagctt aaaattgaaa ccaggttatc agcatttcat      300
gccaggagag agtgggcatg aatgatttca ggaaatgaag agctagattt cagccttgaa      360
tttgcttcca cccttctgtg gcaaattagt gtgggctcac tgagcacttt atctgcccgt      420
ggtaatttat tttaccagac aggggtgt                                     447
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<210> 33

<211> 176

<212> DNA

<213> Homo sapiens

<400> 33

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gtcctttgta attgactttt tttactgaac atgatgtttc aattactata gcatgtatca      60
gtactttatc acccatgggg tgttaaaaaa acagtttaaa aatacagtct ttcacatgtc      120
ctacaaagtg ctagaaaaaa aatttttaaaa attgacgggg cgcaggggct gatgcc          176
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<210> 34

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (28)..(28)

<223> n=a, c, g or t

<400> 34

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tgctctgtat ctcaattact gttcttcatt tcaattattc ttacctacta ttcagttccc      120
ttgatctttt cttcttgggg gctgtcttag ggtcaggagg attgcagaag caccagaact      180
aggagcagcc ctgagacatg gggagttgga gctgaaggag gaatggcagg atgaagaatt      240
ccctaggtga ggacgtgtga ggggtggctgg gagaaggagg ggggtggtcac gaatggacgg      300
aggggat                                           307
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<210> 35

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 35

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caacagctga gacagaaaag aggtaaggaa gtgttggggg ctgggacaac cagctcccca      60
acaactccta ggtgttttaa gaaggaggca ggaagacttg tgaagatggg aactatacaa      120
gaggcaggaa aaaagacaga tgttgggtaa gtaagatctt ggctcacttg attggtaaca      180
gtgaataaac agtccggaga gacttcccca ccaccagct cttactgggt caaatctcgg      240
gttcctcaag gagacaagac tgtaagagag tttgcagaga agagatgagg gtgggttttag      300
gtaggaaatg tcagtatggg atggaactgg ggaacaggat tccaggataa ttccctgggt      360
taaaaataaa ggaagtttct gtaatatgtt gtacctgata aatctgcttg tgttctttta      420
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taccgtcttc ccgactttgc tcaatgatag ctgggtgggt ctagctgggt tccagccact      660
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cctactattc agttcccttg atcttttctt cttggggggt gtcttagggg caggagatt      960
gcagaagcac cagaactagg agcagccctg agacatgggg agttggagct gaaggaggaa     1020
tggcaggatg aagaattccc taggtgagga cgtgtgaggg tggtggggag aaggaggagg     1080
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<210> 36

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n=a, c, g or t

<400> 36

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ggggcagtta acagatgaaa ataacctctc caaagtgcgc tgaagagggt caacctaaag      180
tggttggaac tttgcttata aaataatata ttacatttgg ttactaaaac actaggtttc      240

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ctttaattga agaatcccag tttgagtgtt tctcaagtac agtgagtttc aaaggatagt 300  
 ggtagctagt agtattagtg aaaatagtca taactagcat ttattgaata ttatttgcca 360  
 aaacgtgcct aacaatttta catgtattat ctcatTTAAC cagcacaagc aaccctatga 420  
 gaggtgaatt attgttatcc aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
 nnnnnTTTTT agtattacac agaagatctg ggactcaaaa ttaacaggct attatcaaga 540  
 acatttatga agggaccaca ttatatatga cagcgttgga tgtccagtga attttgcatg 600  
 atacggagtt gaattagtcc ctggcttcaa ggactttcct ttctctttta tcccttctat 660  
 tctgttcaca cttttcttct agatactgga actataagcc caaaactact taacatgaaa 720  
 gactttaggt acacgattcc ccaactggcag ctgctttaat ggtgaaggat ttcttgagta 780  
 ctagcagaaa acataatata taaagagagt tgtgtgctag acaaatggac taagaaacca 840  
 tgatttcttg gggttttgtt cttgctatTT tcaagctaaa atgcaccctt gggattgcag 900  
 atggtcataa gaaaaattat caagtgaaaa gttaaccact gccaaactca tatgattgaa 960  
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<210> 37

<211> 1347

<212> DNA

<213> Homo sapiens

<400> 37

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 ggggcagtta acagatgaaa ataacctctc caaagtgcgc tgaagaggct caacctaaag 180  
 tggttggaac tttgcttata aaataatata ttacatttgg ttactaaaac actaggtttc 240  
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	cctagaaggt	180
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	agcttagtgt	240
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	agaataatgc	300
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	aggatatgtg	360
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	ccagcagact	540
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	cacctgcac	600
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	ataaacgtca	660

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&lt;400&gt; 44

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&lt;211&gt; 1026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

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&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 50

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<210> 52  
<211> 293  
<212> DNA  
<213> Homo sapiens

<400> 52  
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gcaggagcag cccagggctt gagggctttt ccagccctgt ctgtttaccc acgtatggaa 180  
atgtttactt ttctatTTTT taccttaaatt atgtaacact ggtttgacca aactctcaga 240  
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<212> DNA  
<213> Homo sapiens

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gcaggagcag cccagggctt gagggctttt ccagccctgt ctgtttaccc acgtatggaa 180  
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aagtgaacac ccagttcatt ctctcatta tctctggat tccgcctac cgccatcagt 360  
cagtatgccc tacatTTTTt ttgacgtgaa gcacagcctg gagaatattc cctgaaacag 420  
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<210> 54  
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<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

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aatgaattaa aagaaatatt taaaagttht atatthtaag tctccaggga gtaaggcatt      180
gagaaaatgg ggtaaatatt tcttgctgaa gagaaatcaa atatgggtga atcattgact      240
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&lt;210&gt; 55

&lt;211&gt; 2890

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

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tagggagctg tgggctthtg caagtgtgag gactcccagg ctggagtgcg gtggtgcgat      180
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cctcagcccc ccaaaatgct aggattacag gcgtaagcca ttgcacccag ccaagggtggc	420
tcttcttaaa ccttgggtta gtgtcaccta cagatgaaag gtgaaggagg tgagtgcaga	480
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<210> 56
<211> 581
<212> DNA
<213> Homo sapiens

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tcatgagtga tgggagagat ctgggcaggc aacctcctct catcctgcat catcagcctg 180
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ggtcccccaa attgatgtag ggagaggagg gctttgacag cattcagcac tccagagggt 540
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<210> 57
<211> 833
<212> DNA

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<213> Homo sapiens

<400> 57

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tcatgagtga tgggagagat ctgggcaggc aacctcctct catcctgcat catcagcctg      180
gacttggaac ttggctgctt tttctttctg cagttagcgg agggccttgg ccaacacata      240
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catcctaccc cccgccaaacc ccccgccccc ggggtttcca gagcaaccaa caccaccaag      420
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ggtcccccaa attgatgtag ggagaggagg gctttgacag cattcagcac tccagagggg      540
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gagtcaatca caccctaaaa tgcagagccc atagtattgg tgagttgttc atgtgtctct      720
gaagcaaatt tagggctgtg gttcaaacat cgtaaaagtt aaaaaaatt cactggatac      780
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<210> 58

<211> 473

<212> DNA

<213> Homo sapiens

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<223> n=a, c, g or t

<400> 58

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ttcattttga ttctgttcaa tatactttct gatttccttc ttgatttctt tttggtcctg      180
gaatgtgcta tttagtttat gtatathtag ggatatttca gagatgtttc tgtgactggt      240
acctatttta attctcatat ggtcaaagaa tatactttgt atgnnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      360
nnnnnnnnnn nntgtgtggt ctgccattgt tgactgaaga gttataaaat atcagctagg      420
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (380)..(382)  
 <223> n=a, c, g or t

<400> 59  
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 ttggcatttt gtgctgtttt tttctacata cgttttttgg tgtcacccca catattctga 180  
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 cctggaatgt gctatttagt ttatgtatat ttagggatat ttcagagatg tttctgtgac 300  
 tgttacctat tttaattctc atatgggtcaa agaataact ttgtatgaat aacatnnnnn 360  
 aaaaattggt tcaagattgn nntatgaccc agaatgtggt atgtcttggt aaatgttcag 420  
 tgtctbcttc aaaaaatgtg tggtctgccca ttgttgactg aagagttata aaatatcagc 480  
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<210> 60  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n=a, c, g or t

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 <223> n=a, c, g or t

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 <223> n=a, c, g or t

<220>



<221> misc\_feature  
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 <223> n=a, c, g or t

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 tacttcctat ngtgtatnac agtgaaatta taagangnat tcaccataat gtgtataatg 420  
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<210> 61  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
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 tttctcctct gaaaatgcat tgtaaattta tgctagctta catttgaata ttagtcatct 300  
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<210> 62  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 tagttgatat ttaagtggga tggtcattgc agaaagttgg gaagaaagtc tcatcacctc 180

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<210> 63  
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 <213> Homo sapiens

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 <223> n=a, c, g or t

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<210> 65  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
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<210> 66  
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 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 agggagattg tgcttgagtc acgcttccag ctctagtc tttgtgggacc ccagtggggc 780  
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 tgctcccaa tgcagtaatg aaaagccaat gaaatcaaag tatataatat atatgctaaa 900  
 gtactttgta attataaagc attaaacagc taaaaggaat aataaattct gttcagagca 960  
 cagattggca agctttttct gcagagatct agaaaataaa tacttttaggt tttgcaggcc 1020  
 aagaggcaaa a 1031

<210> 67  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 aagtctctca ctggttgctg gaacctctgt tggaatgctg tctttagaag ctgcatttgg 60  
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 aatattgttg gtactttgct atttcaggag gacacctata tacctaacat atttatattt 240  
 gccaatgttg ctttactgtt tgcacattaa gttgtgggca tatttttgtg tttttgagct 300  
 gggagtccat ccaacacacc atgttcactt tgggtatacc aaagtattta cgcttctat 360  
 atctagggaa cattatacat gcaatagatt gtagttctgg gaagtcgaag ccttgtctat 420  
 ctttttcacc actgacccca ttataatct agaacagcag ctttttggga tttgagtttt 480  
 gttgccttgt ctaggttttt ggaggcgcac tttaccatgt tgtattacag gatggat 537

<210> 68  
 <211> 1645  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
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 atgactcacg aggcaacggt cgacagacaa taccgtttac acacatatgt caaagcaaag 180  
 gtggtttccc tgcaacaaaa atcaagactt ccttagttgg gtagcgttgt ctggtcttgt 240  
 gtattaattc agtgtctcct tattatgaca tttcctttaa ggcaacaggc attagcataa 300  
 atgtgtaaag aatgaaaaaa aacctgactg ccagggggag gcaggaagga tatcttcgga 360  
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 acgagaccag aggccttggtt acaggcagaa gggatatgaa aggacgaaaa ggaaagaaat 480  
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 tgtgatctaa ggggtgcgagg gtctgtaatc tctcatttgc agggcaaaaa gagaagccct 600  
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 cactgacccc atttataatc tagaacagca gctttttggg atttgagttt tgttgccctg 1560  
 tctaggtttt tggaggtgca ctttaccatg ttgtattaca ggatggatag acagtggatg 1620  
 ttacgtgaca aaatagcctg agttt 1645

<210> 69  
 <211> 164  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 aaattttata aatggatagc accaaatggt aatgagtgtg tagaacaagt gggataactca 60  
 tatactgcta gctagatgtg taaatgtggt aaagtccctt tggaaaacct tatcagagtt 120  
 gtctaattga ggtaaactta cacctgagcc agcaattgtg ctca 164

<210> 70  
 <211> 1490  
 <212> DNA  
 <213> Homo sapiens

<400> 70  
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 tgaaaaatcgg aataatcaga aacctgacca tgatggtgaa agaaatatgg aagtaactcc 180  
 aggagaaaag atacttagga acaccaaaga gcaacgcgat ctgcataatc ggctgagaga 240  
 gattgatgaa aagctgaaaa tgatgaagga aaatgtgtta gagtccacat cactctcttc 300  
 tgaagaacag ttaaagtgtc ttctggatga atgcatactt aaacaaaaat ccatcattaa 360  
 actttcttca gaaagaaaaa aggaagacat tgaggacgta acacctgtgt tccccagct 420  
 ttccagggtcc atcatctcta aattgctaaa tgaatcagaa acaaagggtcc agaaaactga 480  
 ggtagaagat gcagatatgc ttgagagtga agaattgtgaa gcttctaaag gctactatct 540  
 cactaaagcc ttgactggac ataacatgtc agaagctctt gtcactgaag cagagaatat 600  
 gaaatgcctt caattttcca aggacgttat tattagtgc acaaaagact attttatgtc 660  
 gaagactctt ggcattggga gactgaaaag gccctccttc ttagatgatc cactgtatgg 720  
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 ggtttttgct cattaaaatt tctgggacca ttgtttataa atttattgct aatcttacag 1080  
 tattaggatt cattataaaa accaactttt taatgtatac gtgttagggg aaaactcgtt 1140  
 gaagtgtgtg gattgtcctg tattcaattt tgtatgtttc acctctactg tgattcagac 1200

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agatcatggt ggtcactggg aatttttgcg gtggccctgc tttccttct tcccacttgt 1260
ctcatgtctg tgaaactggt acaacctgcc ataagatgaa atgaattgtc tcaacaaagc 1320
aatattagaa gagcctttac tatcttattg gtgatgacac gtttcttaag taggagtttg 1380
agtgaattat ttgatataatt actttgttaa tttaatagtt aacaatagtt tcttattttc 1440
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<210> 71
<211> 225
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (22)..(22)
<223> n=a, c, g or t

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<400> 71
tgtgagccat tgtgtctggc cnagtgactc acttctgaag acagaatata ggggaagtga 60
tggtatgtga cttcagagat cagatcataa atggcattgt agcttctgcc ttgttttctc 120
tcttgtgtca ttactctgg ggaaagtcag ctgacactcg tgaggatgct caagtggcct 180
tgtggagagg cccacgtggt gatgggctga ggctctctcc agcag 225

```

```

<210> 72
<211> 519
<212> DNA
<213> Homo sapiens

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<400> 72
ctcttcagg ctctctgga cccttcccgc tgcccagcgc tggggacgcc ttctcaccc 60
tgcggaactct ggctctctc cagcctctc ctgggggagg ctgcctgcag tcccaggccc 120
agggtagctg gcagggggcc acccccaac ctgcaactgc ctacactgct ggagaccctg 180
gcagcatcaa ctccagtaca tctaattaag tttgggggat aagcaggaaa gagcgctgcg 240
tgagctgcca tgtatcgcca gccgttgctt tgttactgaa cgtgccgccg acgacctcag 300
aaaaccacaga tgggtggtgg tgcccatgag cccctgctcc tcagccaggc ccgtggcgcc 360
ggctcatgtg tctgctgcga ctcgagatgg cctgaaacgc cactcattct cccacttcag 420
ttcgtttttt tgacagtaat tttatggtaa cgctatgaat tgaattgtct gttctaggac 480
tgggcacaga ttttccatt aaaatttttg acttatttt 519

```

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<210> 73
<211> 1315
<212> DNA
<213> Homo sapiens

```

```

<400> 73
aattgccatc ggatgaagcc tgctctgttc agcgtgctct gtgagatcaa ggaaaagaca      60
gtggttaagca tccgtggcat tcaagacgaa gatccccctg acgccagct cctgaggctg      120
gataacatgc tgctggctga gggcgtgtgc agggcccgaga agagaggaag aggaggagcg      180
gtggccaggg ccggcacagc aacaccaggt ggctgtccaa atgacaatag cattgagcac      240
tctgactaca gggccaagct gtcccagatc cgacagattt accactctga gctagagaaa      300
tatgaacagg cctgtcgtga gttcaccacg cacgtcacca acctcctcca ggagcagagc      360
aggatgaggg ctgtctcccc taaggagatt gagcgcattg tcggcgccat tcacggcaag      420
ttcagcgcca tccagatgca gttgaagcag agcacctgtg aggcagtgat gaccctgcgt      480
tcgcggctgc tcgatgccag gcgcaagcgg cggaatttca gcaagcaggc gacggaagtg      540
ctgaatgagt atttttactc ccatctgaac aacccttacc ccagcgaaga agccaaagaa      600
gagctggcca ggaagggcgg cctcaccatc tcccaggtct ctaactgggt tggcaacaaa      660
agaatccggt ataaaaagaa catggggaag tttcaagaag aggtaccat ttacacgggt      720
aaaacggctg tggataccac ggaagttggg gtcccagggg accacgccag ctgcctgtca      780
acacctagct ccggctcctc tggacccttc ccgctgcccc gcgctgggga cgccttcctc      840
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gcccagggta gctggcaggg ggccaccccc caacctgcaa ctgcctcacc tgctggagac      960
cctggcagca tcaactccag tacatctaata taagtttggg ggataagcag gaaagagcgc     1020
tgcgtgagct gccatgtatc gccagccgtt gctttgttac tgaacgtgcc gccgacgacc     1080
tcagaaaacc cagatgggtg gtggtgcccc tgagcccttg ctctcagcc agggccgtgg     1140
cgccggtc tgtgtctgct gcgactcgag atggcctgaa acgccactca ttctcccact     1200
tcagttcggt tttttgacag taattttatg gtaacgctat gaattgaatt gtctgttcta     1260
ggactgggca cagattttcc cattaaaatt tttgacttat tttaaaaaaaa aaaaaa     1315

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<210> 74
<211> 435
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (324)..(324)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (355)..(355)

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<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (370)..(371)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (385)..(385)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (393)..(393)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (395)..(396)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (399)..(399)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (408)..(408)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (424)..(424)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (427)..(427)

<223> n=a, c, g or t

<400> 74

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cccatgaata catcacagac tttctcagaa catgtaccac ctctgatgtg aaagcaaagc 120

ctgccatcac catgattaca cactagtttt taaagttaat ataacataga actgacagta 180

ttttcttcag agcttaaatt tccttagata ttttctttct acatagtagg tactactcca 240

atgtaattga tgtatcttta aaagaatata tatatagcgg tgattttgca aagcatgaat 300

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tgttatcatc atgatgggat attntctata attatgtttt ttacaattac cttgntgatt      360
ttttccctcn ngtgaaatca gcatngccgt tantnngtna ttcattgntc atactatata      420
gtanaanccc acctt                                                              435

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```

<210> 75
<211> 704
<212> DNA
<213> Homo sapiens

```

```

<400> 75
gggcactttc tataactaatg ttcaaagcac attcacatct attgtacctt ttatctccca      60
ctctccatct ccagggtttat attcttcact tgggtacttta tcagaacact ttgtactgtg      120
atagcaactc ttactcaaat ttggtaaaac aaacagataa tgagtaaatt gctcttgaag      180
gagtacagcc tctaagactc attgggttcag tgacttcaga aacatcactg aggactcagt      240
ttcttcccat ctctctgctc caccatccgt ggggattggc ttctttctca ggcagtttcc      300
cctaagtggg cacaagatgt ctactagcca caaatggaat aagagggtcc cttgtccatg      360
tgcaccagga gacagaaacc tcttcacagc ctttcaatac atattgtccc ttcttttgat      420
ctgaatagtg gccacttaca tcatgaaggg cagtaaccat actcaatgcc cgcactgata      480
gggcatacat ccggacagga tccacctcta gggctgggga tggcttagct ccagctatgc      540
catatgacta tgtgtagaag aaaaaaagga aagtgggttac cttggggaga agtagaggaa      600
caaatgctgg gtaagaaact aatagcacca ttaaaatggg gccattgtac ttcattgtgt      660
tattcttttt attctctaaa taaaacaaat tctgaatata aaaa                          704

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```

<210> 76
<211> 539
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (527)..(527)
<223> n=a, c, g or t

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<400> 76
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acttaagcct ccaggaaagt tttgttagat attgcagtca ggtctaggct aagtatttta      120
aattttttat ttttatttta tttgggttaa agcgggtgtc tgatcagtga cagaagtgc      180
ttgggtccac ctttaacaga acgttgggtg agagcaaata agcacaatct tctcctctat      240
gaacatgtgt gttgactcat gcatactcaa gaaaccctgt gaagcagcct tgaaaagaga      300

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tttttctggc caaggtgata agcaaatact tgtatagatg ttatgactgt gcaaattggtt	360
tgcaaggaga cctcagaaat gacttgcaga agagaatttt gaaaaaaaaa ttttaattggc	420
tcgaacacaa tagaaagcca gtcattaatt gtaataactc tctagtgttg atactctaag	480
gtatgagcat acctcagaat taggaccagt tcatattata ctaaaanata aatattgtc	539

<210> 77  
 <211> 592  
 <212> DNA  
 <213> Homo sapiens

<400> 77	
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gtgaggggcca catgccccac gaggggggtg atctaaggct gagtttgggc agagaggcca	120
aaaaaagggtg ccaggcagct cacggacaga ggtgctcgtg ccacacagaa ttctcagttc	180
tgggaatttt tgtcaccaa attgctgagg actcgggcag ctacgtcgcc tgtaccaggg	240
gtgcgcctgc cccaacagtg cctgctgggc cccttaaate cgccagcctc ctagctgagc	300
catcagtggc tccttggtgg cctcgcaggt ctctgatct ggagaggtct tgatttagga	360
gcctcgggtc caaccccagc cctgcttctg ggaggtctc ctgagcctca gtccctcag	420
gggtgtggct gctgggtctt cgtggcggtg agggacaagt cggagtgcag ggggtcaagg	480
acaggaggtg gctggctgta gcaataatcg gaaaaatgac agtggctcgg agcagagtg	540
tgggtggtgga ggagaggggt gggcattgtt atctcgaatg aaaacagtct gt	592

<210> 78  
 <211> 603  
 <212> DNA  
 <213> Homo sapiens

<400> 78	
ctgagatgct ccgcatcccc caacccccgt ggtgacaggg tgggagtcct gtaacctgtc	60
acaccagcat gtgaggggcca catgccccac gaggggggtg atctaaggct gagtttgggc	120
agagaggcca aaaaaaagggt gccaggcagc tcacggacag aggtgctcgt gccacacaga	180
attctcagtt ctgggaattt ttgtaccaa aattgctgag gactcgggca gctacgtcgt	240
ctgtaccagg ggtgcgcctg cccaacagt gcctgctggg cccttaaate ccgccagcct	300
cctagctgag ccatcagtgg ctcttggtg gcctcgcagg tctcctgac tggcagagtc	360
ttgatttagg agcctcgggt ccaaccccag ccctgcttct gggagggtct cctgagcctc	420
agtccctca ggggtgtggc tgctgggtct tcgtggcggt aagggacaag tcggagtga	480
gggggtcaag gacaggaggt ggctggctgt agcaataatc ggaaaaatga cagtggctcg	540
gagcagagtg gtggtggtgg aggagagggg tgggcattgt tatctcgaat gaaaacagtc	600

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tgt                                                                603

<210> 79
<211> 133
<212> DNA
<213> Homo sapiens

<400> 79
agtttccttt gttgggttat tttaatttgg acctgggttat catttttcag ccatatttaa      60
ctttgtacat atcagaatgt tctgataaaa cttaactttt attaaagtgt ttgtgatata      120
agcataaaaa aaa                                                         133

<210> 80
<211> 349
<212> DNA
<213> Homo sapiens

<400> 80
aaatagaaag tgacagcaat tcttttccta tgcaaaccga cactggaaaa gaaaataact      60
ggcattgcaa aagataatgt gtacccaaac tagcagatta tatcacaaac actttaataa      120
aagttaagtt ttatcagaac attctgatat gtacaaagtt aaatatggct gaaaaatgat      180
aaccagggtc aaattaaaaa aacccaacaa aggaaacttt ttttttttta agacacaagg      240
tctcattctg ttgectaggc tggagtgcag tggcatgact acagctcact gtgacctcaa      300
actcctgggc tcaaacaatc ctcttgcttc agccccctga gcagcagct               349

<210> 81
<211> 959
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (496)..(496)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (498)..(551)
<223> n=a, c, g or t

<400> 81
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tttagccact gtcaccggag gcctggctga acttcagagt ttcttctcca gcgtcggttt      120
cttgattgcc aaaagttcct tccagtctaa tactctggga ttctgggcca gtttctggtc      180
tgtcacagct gaataagagt gcaagggcag gagtggaatg ttcagactgc tccaagagga      240

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ccttggecca ggtgaggcag caggccggca ccttgcccac aaccacatag cgggcccagg 300
cttgctcgac gcctcaggct gtgctctctc cagctcactg cggtgccctc cccagattcg 360
ggcacactct ggtgtaacct gcttcgctcg ttgcgggat gggtggtgag catggagccc 420
attttcccat gtggcatttc agcaacagga cttggctatt tgaaactccc cagacatagc 480
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nnnnnnnnnn nctgcagtta ctgcctcagg acgcctttct ggaagggtgag tttcttggcc 600
aggggatata gcacatgcac tttggagcct ctgagccttt gcacaggctg gtccctttgc 660
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gaagtgtcct ggctgcatgt gctgctctcc ttgcctggg ctgcctctt ctccctggtg 780
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<210> 82
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n=a, c, g or t

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<400> 82
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ggctttactc ctctatttat ctcaacttta ttaatttggg aatgttaagt ctagcacat 120
ttagagaatt ggcttttaag tggcacatat ccatatacta acccatgcca tatgctaaac 180
taatctacac gtgataggca aactcatac tatgtgctct gatggctgct atgctgacct 240
ctttcaccaa tggctgccac ttgtcacact gtgtctctc atgagggagg aggtgtccta 300
tctgcagtca ttatttatac atggcttgaa gatttgcaag atcgtaattt tttaaaaata 360
ccacttcatt ctgattatga aagcaaaatc tactcattgt agaaaatatg aaaaactcta 420
gtgtacaaaa aggatattaa aaactacctg tggattt 457

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<210> 83
<211> 844
<212> DNA
<213> Homo sapiens

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```

<400> 83

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tctgatgggg	gctcagagcc	ctggcctccc	ctgggaggac	acgctgtgca	gccaggacag	180
ctgccgggag	tgtgccccagg	tactgtctat	ggccttcgca	gggtgactgg	caggtatcaa	240
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gggaagtaga	aagtctctgg	gtttttgctg	gtgaagggtt	tgactgtgga	gctcttctaa	360
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&lt;210&gt; 84

&lt;211&gt; 3180

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

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<213> Homo sapiens

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tcttaaagct gttacttcac agccatataa ccaagtgttg gttctgtgca cttggtttgt 360  
tgatttaagt caccatata gaatactgag tagaaacata ccagtctatg atagactaag 420  
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 <211> 523  
 <212> DNA  
 <213> Homo sapiens

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 <223> n=a, c, g or t

<220>  
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 <223> n=a, c, g or t

<220>  
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 <223> n=a, c, g or t

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 gaaagagggg agcctgggga ggctgggttta caaacttcaa aaactccacc aaccacaccc 180  
 aagctctagt ccctgtagta gtaacaatat tactggcttt ctgtgcgtca agacattttt 240  
 ctaagcactt tacatgnaat gcttcattcn tncctcacaa ccacctgtg tattttttatt 300  
 cctccatttt acaaaaaagg aagctgcagt ttcgagtggg tgatactttg cccaaagtca 360  
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<220>  
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 <223> n=a, c, g or t

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 <223> n=a, c, g or t

<220>  
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 <223> n=a, c, g or t

<220>  
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 <222> (365)..(365)  
 <223> n=a, c, g or t

<220>  
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 <222> (381)..(381)  
 <223> n=a, c, g or t

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 cnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180  
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
 nnnnnnnnnnn ntcacttctt tacctcagtt ttctcctctt caaaatggag ataatgccta 300  
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 ctggnacctc tttggcatgc nacttttgtt 390

<210> 88  
 <211> 900  
 <212> DNA  
 <213> Homo sapiens

<400> 88  
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 ttaaaaaata cttctagaga gattctgaaa tcttaatttg gttgcacttt ctggtaatat 180  
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<210> 89
<211> 1173
<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

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cacttaagta ctctaaacca ctatttataa aatacttcta gagagattct gaaatcttaa 180
tttggttgca ctttctggta atatattttt tgaaaactat ttgatattt ctttcatata 240
acattattgg atctgtatca ctaagttaat tgtctaaaag gtaactgatt tcatcaaacc 300
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actatccagt atttatatcc ctatgtatgt atatcagatt aattttgagg cttgggtattc 720
ctaaaagatt tggatgtgtg tatttcttta acttgacgta aacatgtatc acaaacatat 780

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tttttacagt gtgcttaagt aagtttaatt cagcttaatt acatcagttt aaaagatctt 1020
gaagctttcn nnnnnnnnnn nnnnnnnnnn nnnttctgaa ggaagatttc cattaggtaa 1080
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<210> 90
<211> 231
<212> DNA
<213> Homo sapiens

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<400> 90
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tttgagattc atccatattt ctcatgtatat taatagttct tatttctgag tcaactccatt 180
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<210> 91
<211> 2518
<212> DNA
<213> Homo sapiens

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<220>
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<222> (2502)..(2502)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (2508)..(2508)
<223> n=a, c, g or t

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<400> 91
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tgggcgcctg taatcccagc tactcaggag gctgaggcag gagaatcact tgaacctggg 360
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atttctcagt atattaatag ttcttatttc tgagtcactc cattgtgtgg atttactact 2400
gtttgttccc cagttgaagg atgttttagga tctttgcagt tttggacaat tacaagtaaa 2460
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<210> 92
<211> 611
<212> DNA
<213> Homo sapiens

```

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actgatgtgt tttgtaatct gccctccca gccctccgtg gaggctgccg gggccttgta 540
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aattacccat g 611

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<210> 93
<211> 568
<212> DNA
<213> Homo sapiens

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<222> (60)..(116)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (435)..(435)
<223> n=a, c, g or t

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<220>
<221> misc_feature
<222> (442)..(509)
<223> n=a, c, g or t

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<220>  
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 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (561)..(561)  
 <223> n=a, c, g or t

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 tatgtattat acattagaca ttgagctgga tgtttttcct atatcagaac atttaacata 420  
 cacaaaaatc cttgngcatg gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
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 ctacacacct aggctatatg gtatagccta ttgcttcgct cctaggctac aaacctgtat 240  
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 atacatctaa acatagaaaa ggtacagtaa aaacagcgta aaaaaagatt tttaaaatgg 360  
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 gagtgagtggt tgagtgaatg tgaaggccta ggacattatt gtgcactgat tgtagactgg 480  
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 <212> DNA  
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 <223> n=a, c, g or t

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 tttttagata gctttttatg tggcttgga gtataaagat gtgaaaaaat agttgaaggt 180  
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<213> Homo sapiens

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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 aaatttttac tttccatctt aatgtaacct tatgctattc tgtattttta ctgtatattg 180  
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<210> 101  
 <211> 1382  
 <212> DNA  
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 taaccagagt cctaagatgt gcaaggctcag tgtgtgaact atgctggagt gtgatgtgaa 180  
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 <212> DNA  
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<212> DNA
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<223> n=a, c, g or t

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<210> 105
<211> 816
<212> DNA
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 cttgaaaaatt aaaaatttga gcacccaaaat gaaaaattca ataaagtaga agataaagtc 240  
 taaggaagta ggataaaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300  
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 ggattaagat tcacttccaa acatatcata ccctagaagc ttctggaaag agaaaaaagt 480  
 aagccaaata tgtaaagtat cagaaatgga aagtcttctc tctagcaaca ctgaaagcta 540  
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 agagacagag agatgtccca ggagaagaga aattcatctg gcctatggaa cagccagttg 780  
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884

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 <213> Homo sapiens

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 ctggactgtg agatacgggg gagttctctt ctatgtcatg ggaggggctg tgctcaaadc 900  
 ttatgagtac tgggtggctt gtcttcctta gctagtaggt gtatttcaac tttgctagga 960  
 aagctggcat tcttaaaact actccagtaa gcagcctgct gggctgtcaa agtcagactg 1020  
 cctggcacca agtgtattcc tccaatgtta aggctgtata tacagggaga atagcagaga 1080  
 ggccattgtc tctctaacta gaagcaaadc cccatagtat tgggttctgt aggaggagaa 1140  
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<210> 108  
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 <213> Homo sapiens

<220>  
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 <222> (443)..(443)



<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (532)..(532)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (534)..(534)

<223> n=a, c, g or t

<220>

<221> misc\_feature

<222> (544)..(544)

<223> n=a, c, g or t

<400> 108

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gtcctccagc aaaaaaatat gaaaccttat tttcatgaaa gccttttttg tttcacaatt      180
tgccatttgt tattaaagcc cctctactga agagctacaa acccatttcc tctactatt      240
tcatccttcc tattctgttt cttaaagtgc ttctgtgcct taaatgtctt ctgtgcatcc      300
tatggaagaa gaaccctcct aattcagaat tcacagcatg gagagagaag ttatttgctt      360
atttcattca ttaataacta gagccaccaa cataccacat cctatttaat gttgtcatta      420
tttacaaaat gcaagggaaa atngattata gtgaagtgga ctcattcata gcaacactat      480
atatgccaaa atttcagtga cttgaatggg tacacaaaca gtttggtttg tntncaatgt      540
taangtcatg ttttgttgaa atgttgattt ttaaaaaggc ttttgaagta aactgaagaa      600
ttcactttat gagaaaaaca ttagaaactt gtttcctacc tacaaatatc aaaattatta      660
aagaggcatg tgaataatta taattgaaag agtatattaca tttattcatg ttttataatt      720
ctgtgcaaaa aattactaag aattggttca ggttgccatt aatatgaagt gcttagaatc      780
ctgtatatgc caaagaaact gcatctgtga catgtaatat ttttctgttc tattgtaact      840
tgagaatttt actatgatat tttagtttct      870

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<210> 109

<211> 210

<212> DNA

<213> Homo sapiens

<400> 109

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agaagtggca ttcttaaatt caagaaattg ggatggggag tattcacaca ttttataacc      60

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cagaaattca agcaattctg gtgactacaa atgcattgtt ttggagaata gttgtaaggt 120  
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 ttgttttggt ttgtttgaga cggggtctcg 210

<210> 110  
 <211> 861  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
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 gcatgttttg gagaatagtt gtaagggtga aaaagaatta ggaactcgac agatagttag 180  
 ttttaacggt taattaacaa ttcttctttt gttatgttgt gtttgagacg gggctctcgt 240  
 ctgctgcccc ggctggagtg cagtggcagg atcacggttt attgcagcct taacctctg 300  
 ggctcaagca gttctccctc ctcagcctcc agagtagctg ggactatagg caagtgccac 360  
 caccgctgac taatttttaa attttttgta gagatggggg ctcccatctt gccaggctg 420  
 gccttgaact cttgggctca agcaagcctc ccacctctgc ctcccaaagt ccaaggatta 480  
 cagggtgtgag ccattgcccc cagccagtat aacagttagt gtgtgtgtgt gtgtgtgtgt 540  
 gtgtgtgtgt gtgtgagaca gaggggtctc attctgttgc acaggaagta gtgtagtggg 600  
 gcgaccatgg ctacagagaa gatactagaa ttctcaggct caagtgatcc tctcacctag 660  
 aactagttag tagcagagga tacaggcata gaataacaga catggaatta attaaaaaaa 720  
 atgttttagc tggaagacag ggctctaaac atatgtgacc atggactggg ctagaacatt 780  
 gtgaacgacg aagataatcc tcgtggactt gggacctcat caaaatgggt ggacatacag 840  
 gtgtgagcac gggtgcaata a 861

<210> 111  
 <211> 777  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
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 tgggtactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180  
 agcaaagaat ttgttggtca actgttagca attttctatt gttaatatgc tagaatgtca 240  
 gctccacgga tggttgagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300  
 catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360

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tttgtcattc tcgttacctg cttatagagg ccttttcatt tgtacattta actccataat 420
ccaagaaaaa gcagtttggc aagggggcctt tgtttggttt gaaatgttct ctttttttag 480
ctttgtaggc cacagaagac tgtgggtatt caaaagtaaa gtaattttaag aaatatgttt 540
gtttaattta taaggtagaa aattagagat agctctaaga attgcagtaa gccacagaaa 600
tcaaatcgca agacttgaat actacctgta ataacttaat ccccaaataa aacgaatgag 660
atgttgaatg tgaacatgct ttgtaaaactt gaaggtgttc tgtgaatgct gtacagcata 720
ctagaaggta tgactgtgct agagagaatg gagaattcag ctgccacaaa aatctgg 777

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<210> 112
<211> 1076
<212> DNA
<213> Homo sapiens

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<400> 112
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tgggtactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180
agcaaagaat ttgttggtca actgttagca attttctatt gttaatatgc tagaatgtca 240
gtccacagga tgttggagat tgaccatac gtagaattcc aaatggatat ataggaaagc 300
catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360
tttgtcattc tcgttacctg cttatagagg ccttttcatt tgtacattta actcataatc 420
caagaaaaag cagtttggca agggggcctt gtttggtttg aaatgttctc tttttttagc 480
tttgtaggcc acagaagact gtgggtattc aaaagtaaaag taatttaaga aatatgtttg 540
tttaatttat aaggtagaaa attagagata gctctaagaa ttgcagtaag ccacagaaat 600
caaatcgcaa gacttgaata ctacctgtaa taacttaatc cccaaataaa acgaatgaga 660
tgttgaatgt gaacatgctt tgtaaaacttg aaggtgttct gtgaatgctg tacagcatac 720
tagaaggtat gactgtgcta gagagaatgg agaattcagc tgccacaaaa atctgggtctc 780
ttccgctctc agactctgtt gaggaaagaa gatatgcaga aataaccacg tgataaatgc 840
aaaaaagaag atatttttgg gtaatttgag gaaggaaggg gtccccttta tccttggcag 900
tccagagact cttgagaaaa agcatctaag caagtccttg aatgatgtgg catttcaata 960
aaagagatgg agaggaggca tttgagatag gaggactagt aggagatgga gaaacttgga 1020
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<210> 113
<211> 190

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<212> DNA  
 <213> Homo sapiens

<400> 113  
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 ttccccagt actttggatt gaaataaacg ggtagaatg gagaacagat gacaggagtc 120  
 ttctctgaaa ttcttgagag gccacacaat cttagggtga ataaagaagg aataagaata 180  
 ggaaatacgg 190

<210> 114  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<400> 114  
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 ccgccactat cagcgagcat gtgaggatat tggaccttca cccaagattt catttagggg 120  
 tatactaggg tttttagtgc taacactatt tgagagaaca ctgcccacac agatctgcat 180  
 ttacctatta ggcataaaca cttggaatac caaatgtacc agatccgctc atagtagtaa 240  
 gtcagaagtc agcttccttc cctgttgtg ttaggatacc accatgcgta atcatcctga 300  
 aacaaagggtg cgggggagga tttggaaaac ttgttcctaa ataagctgtt ttctaagttg 360  
 agtccccctt ctctagaaag tttccttagg aacattatgc atattggaga caaagataaa 420  
 acccttttta ttaaagtaaa aaaaaatgtt gatagttgtt ggtgatgtcc aaataatatt 480  
 ttcaagtcatt attataatga tggggtttcc ccagttactt tggattgaaa taaacggggt 540  
 agaatggaga acagatgaca ggagtcttct ctgaaatttc tgagaggcca cacaatctta 600  
 ggttgaataa agaaggaata ag 622

<210> 115  
 <211> 801  
 <212> DNA  
 <213> Homo sapiens

<400> 115  
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 cttgggagat tataggtaca gaataccggt ggctttcgcg ggactttgaa aactaatgta 120  
 tgagcatttc tgctgccaga ggatagtgtg gttcgtgact cagtggctgg tcacacagag 180  
 aaggttgaca cacagtgggt gaaaggttgg aggtgcgcgt gatggggtgg ctgtgtgcaa 240  
 aaggctgcca ctgagctggt cagggactcg tttgaatgat gaggatggg tgagaatatg 300  
 tgtcctctgg atggagttgg ggatgaacag ggaaagttgt gtgagacttt atagaagggtg 360  
 cagtggctag agcaggcata ttcattgtgc tgtcagtaac agaaccgaag gcaaggctctg 420

agctggagca cgggtggggac ccaaagtggg agagactgtg tctgcccaca gggagtattat 480  
 ggtcaggagg gatgggcaag tacagggata agtaacacaa gacagactgt gtttaaacca 540  
 cccagtgaag ttacaaccag aggtgggtggg aatgcagagg aagagggggag cagagagcac 600  
 ctgagatggg cttgagttca gaaggggaaa aatgaagggc cctccagggt gaacagcatg 660  
 agtgttcaga gacagcatgt atatggttta tggagaacgg tttgcctggg gagtaggtag 720  
 ctctgggaaa caacacttgg aaaaattgga ttgagttagc atatgtaagg cttaatgccc 780  
 tgctaagaaa actataactta g 801

<210> 116  
 <211> 1657  
 <212> DNA  
 <213> Homo sapiens

<400> 116  
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 caaggtggca gtggctgtaa ttgtgccact gcactcctgc ctgggtgaca gaggtagacc 180  
 ttgtctcaaa aaaagaaaga aaatttttaa atttcttgaa acaaataaaa atggaaacac 240  
 aacatactaa aacctacagg atacagcaaa aacagtacta tgaagaaagt ttatagcaaa 300  
 agtgcctaca tcaaaaaagt agaaaaactt caaataaaca acctaaaaat gaatcttaaa 360  
 gaattagaaa agcaaaaagca aaccaaaacc aaaattagta gaagaaaaag atcacagcag 420  
 aaataaatca aattgaaaca gaaaaaacac aaaagatgaa aggaaaaaaa aactgggtgt 480  
 ttggaaaaga taaacaaaat ggacaaacct ttagccagac taagaaaaaa agagagaagg 540  
 ctcaataaaa taagatcaga gatgagacat tacaagcaat accacagaaa ttcaaaagat 600  
 cattagaaac tactggccag gcatgggtggc taacacctgt aatcccagcc ctaagtatag 660  
 ttttcttagc agggcattaa gccttacata tgctaactca atccaatttt tccaagtgtt 720  
 gtttcccaga gctacctact caccaggcaa accgttctcc ataaaccata tacatgctgt 780  
 ctctgaacac tcatgctgtt caacctggag ggcccttcat ttttcccctt ctgaactcaa 840  
 gccatctca ggtgctctct gctcccctct tctctgcat tcccaccacc tctggttgta 900  
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 cctcctgac cataaactcc ctgtgggcag acacagtctc tcccactttg ggtcccacc 1020  
 gtgctccagc tcagaccttg ccttcggttc tgttactgac agcaacatga atatgcctgc 1080  
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gcttctctggg tctcaaccac ttcaaaaccc ctcaaacagt acctatccaa agcaaactgc 1560
tgggcaggcc cccaaacaga acctgtgaga cacagttaag gataggaaaa tgcaggcgtg 1620
aagccatgac tgctgaccct tatagaagat gtgcctt 1657

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<210> 117
<211> 1041
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (759)..(759)
<223> n=a, c, g or t

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ttaagagga gggttattac tcaagaaatt tgtacaaaat ataaatatac tttttaagta 180
ttaagaaaat atctatactc tacaaataat gttaccatgt agcatatgaa ggttatggta 240
ttctaactaa agaagcttaa gattttttca tgggatattg ttctgccaga aaatatctat 300
gtgcagtgtg gatatatgat gtagaacaaa aaaattgtat atactccaaa gtattattta 360
atgcagaaaa ctgaaaatct tcaaaagtta caaaaaaact tcaccatgtc caatgcagct 420
ggtaggaaaa atatttctgc aagaccagaa ataaactaga agaaggattt acaggagtaa 480
taaaactgag aaaccgctac tcccttcggg tcttgattga ttgcaaggac ctcaaacttg 540
tgtagattgc ccaatttacc ctcttgaaat aaacaaagaa aaagtactga ctgaagcaga 600
tcataaaata taaaacacag aagaaaataa gctaccactc taaagaatga gaaaaaatt 660
aattgtatac attttagtta ttttaaatat acttaaaata ttttaagtaa cgcaatgggt 720
aaaatagaaa attttaaaaa atgatttgaa aagaccaana aattgtaaac taaacaagca 780
tatttgggaa aggagccaaa gagaaattga aaaaaaaaaat aagtttaata cacaatattt 840
gggttaata ttaagttaga ctcacatgat aaaaagatta gtaaactgca atattgagca 900
gaatgaatat caccaaataa agacaaaata taaaaatata aatataatta taggaagaat 960

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atgagaagga aaatacattt aaattatcca atagaatata taaaactata gaatatgtaa 1020  
 atagaatgta taaacatttc c 1041

<210> 118  
 <211> 688  
 <212> DNA  
 <213> Homo sapiens

<400> 118  
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 aacatatgtc ctttaaagta agagtacctc cttcccagat acgtgcagag cccagcccta 120  
 cccagttctg aagccactct gacacagacc aatgtttttt cagggttctc aggcctttat 180  
 ctcacagggtc tgcaacctgt tctgttgcta caggcaccat atctagtgtc gtagtagaca 240  
 ctaggagaca aaggcgaaaa ggctttcatt cctgacacag cctgcatatt tgctctaatt 300  
 tgaagtgggtg tgaacacact gccaaaggaag cccagaggag ggaaggaata aagctgcctt 360  
 gaaggacaaa gaggaagtgt ttccagagga ggcaacgatt gaatgggacg aaagcttcac 420  
 aggacttcac tgaaccagag gatggagaag gacactctta ggataggaaa agttgaaaaa 480  
 tcccaaagag gcatgttaca ctatgaagcg tttggacaat gggctacaca aggttgaaat 540  
 gggagggttg aataaactgt tgaagagctt ttagcagcca tggtaaagtg tctggatttt 600  
 atctcaatgc agcaagggca gggggtgaag aatcacataa taaaataggc atctgctcct 660  
 gaaataacca tacagaattt aattattt 688

<210> 119  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
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 atttaaaaaa aaaattattt cctaagtact cattttaaac cctcctctgt tttaatggaa 120  
 ggtgctgccc ctttaacata tgtcctttaa agtaagagta cctccttccc agatacgtgc 180  
 agagcccagc cctaccagt tctgaagcca ctctgacaca gaccaatgtt ttttcagggt 240  
 tctcaggcct ttatctcaca ggtctgcaac ctgttctgtt gctacaggca ccatactag 300  
 tgctgtagta gacactagga gacaaaggcg aaaaggcttt cattcctgac acagcctgca 360  
 tatttgctct aatttgaagt ggtgtgaaca cactgccaaag gaagcccaga ggagggaagg 420  
 aataaagctg ctttgaagga caaagaggaa gtgtttccag aggaggcaac gattgaatgg 480  
 gacgaaagct tcacaggact tcaactgaacc agaggatgga gaaggacact cttaggatag 540

gaaaagttga aaaatcccaa agaggcatgt tacactatga agcgtttgga caatgggcta 600  
 cacaagggtg aaatgggagg ttggaataaa ctgttgaaga gcttttagca gccatggtaa 660  
 agtgtctgga ttttatctca atgcagcaag ggcagggggg gaagaatcac ataataaaat 720  
 aggcattctgc tcttgaaata accatacaga atttaattat tt 762

<210> 120  
 <211> 576  
 <212> DNA  
 <213> Homo sapiens

<400> 120  
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 ttttcctcgt ctgtcaaaca gggatactgt aatacaacct cagtgtgtca ttgggcagtt 120  
 taaatgaatg tacattcctg aggcattcaga actttgttca ctgttatata cccaatgcct 180  
 agaagaggac ctgcacatag cagggtgctca gtaaagtgtt gttgaatgaa tgattaagtg 240  
 catgtaaagc attaaagcata gcgcctggca gtaagtgtc aatattatga cttcttatat 300  
 taacacgttt tacatataaa gaaatggagg caagaaagca tttcctttgg ggttttagagc 360  
 gcttaagttg ttcctctgtt atcatgcctg aattcccccg cccctcagtt acctggggaa 420  
 gagtaaaggc aagaattctt accagcatta gtcatacatc ctctgatag gaatctgcga 480  
 aaacacacac ttctgctttt agttctatct ttagaattct ctctgggct gttgctcctt 540  
 tgttccttca ttgtaataaa aatggattct gaaagc 576

<210> 121  
 <211> 1055  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
 ctacgcctcc agagtagctg ggactacggg cgccccacca ccacgcccgg ctaatttttg 60  
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 gtgatccgcc tgcctcggcc tcccaaagtg cttggattac aggtgtaagc caccgcaccc 180  
 cgcccagcct ggcagatttt atttaatcat ttgtagcttc attttcctcg tctgtcaaac 240  
 agggatactg taatacaacc tcagtgtgtc attgggcagt ttaaataaat gtacattcct 300  
 gaggcattcag aactttgttc actgttatat acccaatgcc tagaagagga cctgcacata 360  
 gcagggtgtc agtaaagtgt tgttgaatga atgattaagt gcatgtaaag cattaagcat 420  
 agcgcctggc agtaagtgt caatattatg acttcttata ttaacacggt ttacatataa 480  
 agaaatggag gcaagaaagc atttcctttg gggtttagag cgcttaagtt gttcctctgt 540  
 tatcatgcct gaattcccc gccctcagtt tacctgggga agagtaaagg caagaattct 600



taccagcatt agtcatacat cctcctgata ggaatctgcg aaaacacaca cttctgcttt	660
tagttctatt cttagaattc tctcctgggc tgttgctcct ttgttccttc attgtaataa	720
aatggattc tgaaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gcacaagaag	780
gaagaacaaa aaaatagcac aataaaagac aacgaagaca tagggaagcg aagaacaaa	840
gaaagagaca gccagagacg aagcaagaag aaacagacag cagcagaacg gaaagacgaa	900
caacgaactg cgacaggata gcaaccgaaa ccacatagac atagaagcca gaacagaacg	960
caagggaaga gaaaaaaaca ggacgaggaa aggaaataga caccacaata gagaggcaat	1020
aaccggccac gaaacaacaa gagacgagac cacia	1055

<210> 122  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 122	
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tattctacat ctaaatatcg ctgggagtta gagttgggag agatttgctc tagaagcaac	180
atcattggtg gtgacacctt gtataatgaa ttagaaagga ctatagaaaa gtagagtcac	240
ctagaaatgg ttttaactgg gttttaccag ttagaactct gtgatttgga atatgttatt	300
taactttctc gggcctccgt gttctcaa ataaaattgc tgtgatgatc cctacgttat	360
aggattgttg tgaggctttg tgaaggaggg aacacatgta aagagttag cacaaggctg	420
gacacatagt caggctcaac aaatggcgat ggtagtgtt tcctaagcaa ttctatacta	480
cagagaacat tctcataaaa ggctgttcac aggcgagctt aggccttcag tcttcaaat	540
agacactaac acgagc	556

<210> 123  
 <211> 749  
 <212> DNA  
 <213> Homo sapiens

<400> 123	
acctgttatt acaggcatga gccaccgcgc ccagcccat ttcattgtctt ttcagccaca	60
atattagatc cattaatctg ttttaaggac acaccgattt tctacatat atgccaaactt	120
tcatggctct ttccttacca catggaaaac ttttgaagta gtgtgatgtt gaagaagaat	180
ttgtgatatg ttcaccacat atgctttaga gatattctac atctaaatat cgctgggagt	240
tagagttggg agagatttgc tctagaagca acatcattgg tggtagacac ttgtataatg	300

```

aattagaaag gactatagaa aagtagagtc acctagaaat ggttttaact gggttttacc 360
agttagaact ctgtgatttg gaatatgtta ttttaacttct ctgggcctcc gtgttctcaa 420
atataaaatt gctgtgatga tccctacgtt ataggattgt tgtgaggctt tgtgaaggag 480
ggaacacatg taaagagttt agcacaaggc tggacacata gtcaggctca acaaatggcg 540
atggtagttg tttcctaagc aattctatac tacagagaac attctcataa aaggctgttc 600
acaggcgagc ttaggccttc agtccttcaa atagacacta acacgagcac ctgctttgca 660
tgtagcattg tgctaggtgc aagagaatca gacatgtaaa acaaaatccc tgctctaag 720
ttcatagtga gtagaaaata aaaacaagt 749

```

```

<210> 124
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<400> 124
gtgaaaacct ttctttcctt ctctgcttgt gatagagagt gaatgaaggc agtcggggcc 60
gggtggggtcg ggggatatcc atgtcccagt gttagtgttg ttctgacaaa actcatgctt 120
tc 122

```

```

<210> 125
<211> 583
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (488)..(488)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (528)..(528)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (553)..(553)
<223> n=a, c, g or t

```

```

<400> 125
agaaatttag aatttaaagt ttgttttaggt catcttttgg tagatccaat caagttttaa 60
attctaccat gtcttgata tgagcatatg actcattgat ggcgttcagt aaaatctttc 120
tgtgtagttg gtttaaaatt tgacttaaaa cagggatata atatttacct tccctagagt 180
aacagattta tgttatgtaa taaccttgac atgtttacaa aatcatgttt aatgggctct 240

```

```

ccagagctcc agtgaatacc acaatttggg ctgttttcaa catttttaag gaatctggga 300
aagctgtagg aaatgaaata tgtgtcctaa actttttgta tcaggcttaa ctactgcttt 360
cttgaagttt agcaaaagga taaaggactg tatgttcttc cattaactgt agtcaaaact 420
gaatttaagg atttttgata gctgtttaga attactgttt gaatctctac tacaaagaat 480
attaagantt ttagcattga gagtccta ataccactt aacaatcntt agacttactt 540
tgggagggcc aangcctaag ggtcacatgg tcaggagtcc taa 583

```

```

<210> 126
<211> 91
<212> DNA
<213> Homo sapiens

```

```

<400> 126
accgcgcccc gttgtgcatt tctggtttct aagaatcaaa ccacttggct gtttttagga 60
gttacttccc atgttataaa gctgaggaag c 91

```

```

<210> 127
<211> 869
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (400)..(634)
<223> n=a, c, g or t

```

```

<400> 127
gatgatttta ggtttaggca tggtcagttg gaagtactgg aatatccaag tgaagaaatc 60
cattgttagc tagttagata ggtatattgt aggggtattct ctttaacata aaaatggatg 120
agtgtttaat aatttaaaaa taatagaagt tgaccagtta gttgtatctt ctgtggattt 180
gagaatcatc aggacataaa ttataattga aagcacggga atggaggatg acctaggaaa 240
tgtaaagaat gagaaggaaa gattgttgaa gatggaaccc tggggaatgc tggctttaag 300
aagggggccac cgcgcccagt tgtgcatttc tggtttctaa gaatcaaacc acttggctgt 360
tttttaggagt tacttcccat gttataaagc tgaggaagcn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaagtg ctggattgca ggcattgagc 660
cctagccagg aagctatctt ttcttgagtt atgaaacttt gcaacagttg ttcaaattgg 720

```

```

tgtttgtcct tcctatagct ttcataatctt caaattaatt ctgtatggct atataattta 780
tgttttaaaa ggcattctct tgactttgga aatatggaag tctctccttt aacctattct 840
tgttcccatt cccagtctca tttgaaatc 869

```

```

<210> 128
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (40)..(40)
<223> n=a, c, g or t

```

```

<220>
<221> misc_feature
<222> (79)..(131)
<223> n=a, c, g or t

```

```

<400> 128
actgaaacag gactagtgtg gtctggttgt actgcatgan gagaggggca ggtagtgtga 60
gataagatca ggttgaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn naatttctta gagactaaca tgattaaatc aaatcagact gatttttagaa 180
acaaacaaaa aatgctaaat ttattacttg aatactaaaa ctgattttta cataaatatt 240
atactgattt caaaataaaa atgggttatac ttaattaata ttaacaatt aagttgttga 300
atacatattt caatattgaa agttttttat acattatttt ctttatgagt tttatatgcc 360
ctcttacatg aggggatcaa aaaacattca gatggataag tgagaggatg caaaaaaatg 420
taggcataaa attacaccat gtgtatggaa aacaatgaat attttattta ccattatttt 480
ctaataatac tccatactca taaattcatt atactttcgt tgatgagaca tcaattttac 540
attcagctaa actctcattg taactgtgta ccttctcaat tataa 585

```

```

<210> 129
<211> 118
<212> DNA
<213> Homo sapiens

```

```

<400> 129
accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat tctggggctt 60
ggtaaaaatg gatagataag atagtattct aaattcaaat tcgtggctag gcacagtg 118

```

```

<210> 130
<211> 1436
<212> DNA
<213> Homo sapiens

```

<400> 130  
 atttcagtat tgagacttaa aatgaactga aaaatgagat tgaacattta atattttgga 60  
 tgtaactttt gaagaaagta tgcttggtgc ttaaaattgt atatgatttt aggtaagaaa 120  
 ctttgataat attggcataa tttagattta ttttctttct tttttttgag acagtctcac 180  
 tcagtcgccc aggctgaagt gcagtgcacac agtctcagct cactgcaacg tctgcctccc 240  
 agattgaagt gactctcgtg cctctgccac agagtggctg ggattacagg catgcaccac 300  
 cacacaccgc taattttttg tattttttggg ggagacggag tttcaccatg ttggccaggc 360  
 tgcgaactcc tgagctcaag tgatcctccc acctcagctt cccaaagtgc tagcattaca 420  
 ggcatgagcc accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat 480  
 tctggggcctt ggtaaaaaatg gatagataag atagtattct aaattcaaatt tctgggctag 540  
 gcacagtggc ccacacctgt aatcccagca ctttgggatt ccaagacaga agactcactt 600  
 gagtacagta tgagaccagc ctgggcaaca tagatcttgc ctctacaaaa aaaaaaaaaa 660  
 atagccaggt gtggcacatg cctgtagtct cagctgcttg gaaggctgaa atgagaggat 720  
 ctcttgagcc caggaggtct aggccagagt gagctgtgat cgtgccattg gactccaga 780  
 ctgagtgaca gagtgagact gtgtctaaaa aaaaagtttg aattaaaaaa aaaaaaaaaa 840  
 aatgtcgctt gtgcaggggg gctcatgctt gtggaccca gcacttcggg agggccaaca 900  
 gggggtggga taacctgttg aggctcaggg agtttgga aa cagcctgtt gaccacacgt 960  
 gggctgaacg cctcgttcc ctaagtaaca actatcaaaa tattttacct ctgtggacta 1020  
 tagcggggcg atgctgtgat aaaccccggc taactgggag aggcttgagg caggagaatc 1080  
 cctttggacc ccgggaaggg ccaagggttt gacgtgacgc tgagattgtg cactgcata 1140  
 cagctggggc acacattgag cacaatctct ccattcttaa gataccccac agacaaaaac 1200  
 acaaactcca atttgcattg taagatcggg cacctaggat tcagttcctg aaacgtcttt 1260  
 gtcacaatta agggcaaata cttataacgc caaatgtacc tcggcgtctg cacactttta 1320  
 ccacttgtct ttggccaaag ggtatgcttt accaccgggg aggtcgtcag ccaccaatgt 1380  
 gctcttaact tagcaaccat gacctcgccg gtctagaaaa cgcattgttt ccacc 1436

<210> 131  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
 tacatttgat atttgatact gtaaaaagct agctatcaca actgtccata ctagttctct 60  
 tcgagagaat aagtgttccc tggatagata gatattagtt atagatatta taagttataa 120

ttatagtata agttatatct tcagtcataa atactataag attcagctga gcaagggtg 178

<210> 132  
 <211> 775  
 <212> DNA  
 <213> Homo sapiens

<400> 132  
 tcagcctcct gggctcaagt gatcctcctg cttcagcctc ccaagtagct gggactacag 60  
 gcatgttcca ccacacctcg ctaattttta acattttttg tcaactatgtt cctcagcctg 120  
 gtctcaaact cttggcctca accagtcctc cctccttaac ctcccaaagt gttagaatta 180  
 tgggcatgag ccaccgtgcc tggcctacat ttgatatttg atactgtaaa aagctagcta 240  
 tcacaactgt ccatactagt tctcttcgag agaataagtg ttccttgat agatagatat 300  
 tagttataga tattataagt tataattata gtataagtta tatcttcagt cataaatact 360  
 ataagattca gctgagcaag gtggcatgca tctgtagtcc cagctagttg agatcaaggc 420  
 taaggcagga gtcttacttg gacttaggag tttgagtcta gcctcatagt gataccttgt 480  
 ctactgaaaa aaaaaaaga ttgaaccatt gttccactgt ttatgatattt ttttgtgctt 540  
 aattcttatt tatgaatttt tgttctagtt ctgtttctag agagaataaa gccaggtga 600  
 ataactttgt tttctttctg gttttagaat tattagtaac aaatccgtgt tcttaatggc 660  
 agtagcaaac ctgtcttctg tagaattttt aaagagatgt ttctgtcatt agtaatacag 720  
 aagaagcctt gatcattttc agaataaaga attttacgac agggagaggt ggctc 775

<210> 133  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (187)..(187)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (190)..(219)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (224)..(224)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature

<222> (228)..(228)  
 <223> n=a, c, g or t

<400> 133  
 gtttcccatg tagaaatctg tgtctaaata tgtattttgt gataagagtc agtgaatcct 60  
 ttattgagct gattctaatt acaaacaaaa gcaggccttg ccctcaacag taaaaataag 120  
 ggagaacagg acaagaatac ctgacatgac accagctata ttatatatgt gtgtgtatgt 180  
 atatatnccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna tatntatntg actatctggt 240  
 tagccatata tgaaccaagg cctgagggaa gagctgatac taagaggagg tttttaaaga 300  
 tgatttagag aatgtttata gaacagtctg tatgagagat ttgaggtttt tgtttggttg 360  
 gttttgtctt tggcagtagc ctgaaaaaac acataaagag ttaagaatat gttttatagg 420  
 tttgggggaa gcacacctgta gagagagtga atttgaacag aaaaaagaga gagggaaagc 480  
 tggcaaaagc aagtctgact cctgatgcaa aatgcatgag aagactggat aaaat 535

<210> 134  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (184)..(184)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (187)..(216)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (221)..(221)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (225)..(225)  
 <223> n=a, c, g or t

<400> 134  
 tcccatgtag aaatctgtgt ctaaatatgt attttgtgat aagagtcagt gaatccttta 60  
 ttgagctgat tctaattaca aacaaaagca ggccttgccc tcaacagtaa aaataaggga 120  
 gaacaggaca agaatacctg acatgacacc agctatatta tatatgtgtg tgtatgtata 180  
 tatnccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatat ntatntgact atctgggttag 240

```

ccatatatga accaaggcct gaggggaagag ctgatactaa gaggagggtt tttaaagatga      300
tttagagaat gtttatagaa cagtctgtat gagagatttg aggtttttgt ttggttggtt      360
ttgtctttgg cagtagcctg aaaaaacaca taaagagtta agaatatgtt ttatagggtt      420
gggggaagca tcctgtagag agagtgaatt tgaacagaaa aaagagagag ggaaagctgg      480
caaaagcaag tctgactcct gatgcaaaat gcatgagaag actggataaa atttccactt      540
gcatgtttat agcagcatta atcctaaaag ccagggcgg      579

```

```

<210> 135
<211> 503
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (421)..(421)
<223> n=a, c, g or t

```

```

<400> 135
gtgatttatt ttaatggaac ttttgtttat catgaagata caaaaaagtg cggcagaaat      60
attaaagagg gagcttctta taaccataaa ttatacagct cagcatttcc cattttttct      120
tttcttcctt gtgccaatgc ttgggaggaa accagagtat gaacaagaac tgttttacct      180
tctagtggag aaaggacaat ttgcagtgga aagaatgtgt gtgtcgtccg tttgatctgt      240
aaaatgtgaa ctgcttctgt agtcttgagg actgaggaaa agagatgttg agtaaaagtt      300
actgataatt ccagctattc aatcttatct cactttttcc tctcttttat ctctgcccaa      360
atacctctac ttatgcacct actttgaatt tgcaacagtg aaggctgggg gataggagac      420
ngccagtagt gctgagtagt gtcaagtaca gttaacagtg aaatgcggat tttcactcat      480
caaatcagca atcttaaatt ata      503

```

```

<210> 136
<211> 435
<212> DNA
<213> Homo sapiens

```

```

<400> 136
gcagttgaac tgaatagtca ttgagaccct ttctgcgtat gtgctgctat accaggggcg      60
atgatggggc agtgggttcc agacatggga gccagttcgt ctgtgaggat tttctccagg      120
catagtcaag tgtggaaaat gaggacaatg tgggtgaactt ttcataaacc aatggattca      180
ggttgaagac ctggccattt tttctgaga ttatatctct ccaatcttta tccttagcca      240
cagtgtcttc tttaatgaaa tgggtgtgat tatggatgat agattttttt ttctgttggc      300

```



caaattagaa gttggaaacc ctaggttggtt attccttccc ttccccaaat ttcaaagctt 360  
 taccagtttg agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420  
 acgtggatgt gcaca 435

<210> 137  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (569)..(569)  
 <223> n=a, c, g or t

<400> 137  
 gcagttgaac tgaatagtc ttagagaccct ttctgcgtat gtgctgctat accaggggag 60  
 atgatggggc agtgggtttcc agacatggga gccagttcgt ctgtgaggat tttctccagg 120  
 catagtcaag tgtggaaaat gaggacaatg tgggtgaactt ttcataaacc aatggattca 180  
 ggttgaagac ctggccattt ttttctgaga ttatatctct ccaatcttta tcttagcca 240  
 cagtgtcttc tttaatgaaa tgggtgtgat tatggatgat agattttttt ttctgttggc 300  
 caaattagaa gttggaaacc ctaggttggtt attccttccc ttccccaaat ttcaaagctt 360  
 taccagtttg agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420  
 acgtggatgt gcacatacga tgctatgtct caaggatgac atttagtgcc ctccaagaag 480  
 tagaagtgat gccggggaac caccaaggaa gaaggaccag catctctctg gggagcctgc 540  
 agacggtctg tgcatagaat gctttcaang gatggacatg ggactgaaag gagtta 596

<210> 138  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (56)..(187)  
 <223> n=a, c, g or t

<400> 138  
 atttattata cacagtatag attctctgag aatttacaat agacaatagc tactcnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnncta aggagtattc tagtgaagaa aatgggtgaa ctttggttaa actggtgtat 240  
 ggcaaacttc actggtgaaa tacttattcc catgacctat tatctttgta ggtgggtgaa 300

attgcattgg gaactgctgc tataacccaaa agagaatttc agtcacccatg tctgggtggt 360  
 agctatgatg gaatggcagc atcatgggtct cagttatgag tgaaaatctt tgttgtagct 420  
 aagtagtggt gcctcctgag ttttattaaa tgccgtttca ctatctt 467

<210> 139  
 <211> 126  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n=a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n=a, c, g or t

<400> 139  
 ccaangcgtc cgngcacata aaaccatcag ttataattaa cacacaatca ccactcctat 60  
 ataagactct cgtagtatct ctaaaagatt cagtagttat ccactggggt gatcttcag 120  
 ctgtgt 126

<210> 140  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 140  
 acgcgtccgg cgaaggcaaa ataaaaaatt caggaagaat cgagtgtcct ctctttatag 60  
 ggagcacctg aagacttgga ataggtagct tcaccaaaga ataggagaag agcggagaac 120  
 ccggggccac aaggcatcct ttgaaggatg aagacaacta ggaaggctcg atttctgggt 180  
 accatgtgaa cagagaatag aggggagtcg gggaatactc agctgtgtca aaagcagccc 240  
 ataaatgtca tcgaggataa gcactcgaag atcgttgtcg ggcttttata gccacaatg 300  
 cagaagggtca ttgcctgctt ggctaagacc atttctgtga aaagaagagg attttaaact 360  
 ggaatgggat gagtagagca gccttttctg catttcttcc tttgctggct caagagaagc 420  
 agaaacaaac cctattccca gaactatgct gacaacattg atgatggcag cacacaaatt 480  
 aggaggtaaa caaaacgccg tgtaatttc aggctccatt agaaacacag tcagg 535

<210> 141  
 <211> 960  
 <212> DNA

<213> Homo sapiens

<400> 141

```

ggccgctcat tttttttttt tttttttgta ttttttagtag agacgggggtt tcaccgtgtt      60
aaccaggatg gtctcgatct cctgacctca tgatccaccc ggctcagcct ccaaagtgtc      120
gcgattacag gcgtgagcca ctggataagt cattttttaa aagaggttct tatgcttttc      180
aaatgtatgt actgattgaa aaatgcttct ggagaagatg aatattggta atgaaataat      240
agaagctgac taatggacaa aacagtggga tcaaaagact aggaagactt aaagaccaa      300
gcaaaaccca tctctgtttc taaaaattgt tgtgacattt caaaacactt tctcacagaa      360
gaaatactat ctccccatct cccaaactga gcttgatatg accatgaagc ataagcataa      420
cttagtgatg gaaagcgaag gcaaaataaa aaattcagga agaatcgagt gtctctctct      480
tatagggagc acctgaagac ttggaatagg tagcttcacc aaagaatagg agaagagcgg      540
agaacccggg ccacaaaggc atcctttgaa ggatgaagac aactaggaag gctcgatttc      600
tgggtaccat gtgaacagag aatagagggg agtcagggaa tactcagctg tgtcaaaagc      660
agcccataaa tgtcatcgag gataagcact cgaagatcgt tgcgggctt ttatagccaa      720
caatgcagaa ggtcattgcc tgcttggtta agaccatttc tgtgaaaaga agaggatttt      780
aaactggaat gggatgagta gagcagcctt ttctgcattt cttcctttgc tggctcaaga      840
gaagcagaaa caaaccttat tcccagaact atgctgacaa cattgatgat ggcagcacac      900
aaattaggag gtaaacaaaa cgccatgtta atttcaggct ccattagaaa cacagtcagg      960

```

<210> 142

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (554)..(554)

<223> n=a, c, g or t

<400> 142

```

tggcaaaactg tgggaagaga ggcctccagt gtttagagtg atattatcat gtgtaccact      60
actattatac atactaaagg tattcagaca ggtggcttgt ctctgggctt tatatagatc      120
tctgtcaagc tagaagaaaa atgtcactaa aataattcaa gacaattttt gtactttcca      180
acgatgttca ggtaacagct gaaaatattc tcacttattt gacttgagga agaaaattcg      240
aacgaggaaa atcatcaagg atttgctaaa gtcccttctg taaaatcttc cttaaggaag      300
tttaaact cctattctct cttctctcat tcttttgaac tcactgcatg tattgatatc      360
actgacttgg tttgttttct agaatatatg taaaagtaag agtgtgtata tataacccat      420

```

tatgtacata acaagaacag ttccttccaa tattcaaatt tcatgactct agatcactac 480  
 tgtgcattct aagaaggta gggactcatg gagaccaaag ggtcaatcct ggtcattgtt 540  
 gtcttacgag aganaaacia gagc 564

<210> 143  
 <211> 4906  
 <212> DNA  
 <213> Homo sapiens

<400> 143  
 atggtaaagg gatcaattca acaagaggag ctaactatcc taaatattta tgcacccaat 60  
 acaggagcac ccagattcat aaagcaagtc ctgagtgacc tacaaagaga cttagactcc 120  
 cacacattaa taatgggaga ctttaacacc ccactgtcaa cattagacag atcaacgaga 180  
 cagaaagtca acaaggatac ccaggaattg aactcagctc tgcaccaagc agacctata 240  
 gacatctaca gaactctcca ccccaaatca acagaatata cttttttttc agcaccacac 300  
 cacacctatt ccaaaattga ccacatagtt ggaagtaaag ctctctcag caaatgtaaa 360  
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&lt;210&gt; 144

&lt;211&gt; 320

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 144  
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 aacctgtagt agtttgacta gtagtagctc tgacttgagc aattggtggt actgaaatgg 180  
 gaaagattgg aggaggatta aactttgtaa agatattgaa ccagggttca gatatactgt 240  
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 agccaggtgc agtggcacat 320

<210> 145  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 145  
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 ggcattgtgc actgcacctg gtcctactc tagattcttt cctgtgtgaa tttattatac 180  
 tacttaagac ttttaagctc cagacagtat atctgaaacc tggttcaata tctttacaaa 240  
 gtttaatcct cctccaatct ttcccatttc agtaccacca attgctcaag tcagagctac 300  
 tactagtcaa actactacag gttactatga tagtacacat tcctgccacc tctctggaag 360  
 ccactcctga gtcttatctg cagatctgat ttggcctacc agactcccag atgttggaat 420  
 tctttaagtt cagtcagtct ttgcttctct aaaatctt 458

<210> 146  
 <211> 115  
 <212> DNA  
 <213> Homo sapiens

<400> 146  
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 ttctcctccc catgtgatac cccatgttgc cttggaactc tacagaaagt ccctc 115

<210> 147  
 <211> 69  
 <212> DNA  
 <213> Homo sapiens

<400> 147  
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 tcattagtg 69

<210> 148

<211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 148  
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 gatatttggg tgattttctc ttactatgt tcattagtga attacattaa ttgattttct 120  
 aatgttgaat ccaacgtgta tggttttttt ttttgagacg gagtctctct gctgtcgccc 180  
 aggctggagt gcagtgggtc tatctcggt cactgcaacc tctgcaactc taggttcaag 240  
 tgattctcct gcctcagcac tctgagtag ctgggattcc aggcacacac cgccaccct 300  
 ggctaatttt tgtatttttg gtagagacgg ggtttcacca cgttggtcag gctggtctcg 360  
 aactcctgac actcatgac cgcccgcatc agcctcccaa agtgctggga ttacaggcat 420  
 gaccaccagc a 431

<210> 149  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 tattttattt ttatttggt actttaggat tctaatatgc ttacctcacc acagggttact 60  
 tttaaaggcc attacgcat ttaaaatag gtataagaac ctaacaactg tataactcca 120  
 ctttgtccat ctactttttg taccatgatt gtcacacatt ttacctatgt tataaatcct 180  
 tgcttgatca ctattattt tgtttagtca attattgtat aaagatattt aaacaataag 240  
 aaaaatacat atctacctgc atagtc 266

<210> 150  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<400> 150  
 gctcgaggaa gcattatgat acatttattg tggaagagag gggtagttta aacttgtttc 60  
 atccactgat gttcttattg tagctatgat atttcttaat ctgataaaac aataacttata 120  
 ggcaaacgtt tctcacttat gtatagatga aagtatgatt tatataacct tgccatacaa 180  
 tagggacca ttaattactg aagtaattaa tggtttttga gatgtctata atatgttgca 240  
 gttggtgaag attttagaaa gttttatttc ggccgggtgt ggtcgttcat gcctgtaac 300

<210> 151  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (530)..(530)  
 <223> n=a, c, g or t

<400> 151  
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 gagaggggta gttttaaactt gtttcatcca ctgatgttct tattgtagct atgatatttc 180  
 ttaatctgat aaaacaatac ttataggcaa acgtttctca cttatgtata gatgaaagta 240  
 tgatttatat aaccttgcca tacaataggg acccattaat tactgaagta attaatgttt 300  
 tttgagatgt ctataatatg ttgcagttgg tgaagatttt agaaagtttt atttcggccg 360  
 ggtgtggctg ttcatgcctg taatccagca cttggggagg ctgaggcggg tggatcacgg 420  
 gaggtctgga gatcaagatc agccgggcca acatgggtgg aaaccccatc tggaactaaa 480  
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 aggctgaggc aggggaatgg ctggaaccgg ggaggcagg 579

<210> 152  
 <211> 882  
 <212> DNA  
 <213> Homo sapiens

<400> 152  
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 atcaagtgag aggatgccag gcaaagggcc acccctagta acagctgctt gcatgtgcag 180  
 agggagtgcc cgaggagggtg ggagctctcg ggggtcacta gggggcgctg tgactatgac 240  
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 gctagtgtgt gtctcccttt atccagacaa gactcctcag ggcgctgacc aggtcttagt 720  
 tatectagcg tctcccaagc tgggcccctg ttgtgcgtac caggatatctg aaaaatggct 780  
 gctggaacaa aacagaggcc ggtcaagtgg aggagattaa ggtaataag tgacttcgtg 840

gagaaagtct aacatcaggt gagtggcctg cacgggtggtt ca

882

<210> 153

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 153

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cagtggggcc caggggctgg aggaacatgg gtggagctag aggccattat ccttagcaag	180
ctgacacagg aacagaaaac caaactaagt gggagccaaa taagaagaat atatggacac	240
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gatcagaaaa ataactatca gagttgtttg ggagaaccaa gaggtcgtgg ggagagctgg	360
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tctcagcatt tccggagtga ggagttgtca cttggaggtc acggtgtaga acaacacccc	660
tccaccccat taactgttag gacatataaa acagaacaca gtgaagtgtc aatggttgaa	720
aaggacagta ccacatttct cctactagct ttccctgtca tctctaggag ggtccttcta	780
gggatttcca ctactggaa tcacttaggg atgcccgctg atgcagggac caccatctca	840
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 ctagggtaga gtctgagaac caactgataa tgggg 2075

<210> 154  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 154

Met Tyr Trp Ile Asn Leu Ala Phe Ile His Gln Ile Val Ser Asn Ser  
 1 5 10 15

Ser Phe Pro Pro Ser Gln Thr Asn Glu Ala Lys Pro Asn Lys Cys Thr  
 20 25 30

Leu Leu Leu Arg Ser Lys  
 35

<210> 155  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 155

Met Gly Leu Ala Ala Thr Ala Thr Asn Ile Leu Ile Val Ser Asn Thr  
 1 5 10 15

Leu Leu Gly Ile Ile Arg Gln Lys Trp Arg Gly  
 20 25

<210> 156  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 156

Met Ala Cys Arg Gly Gly Thr Ile Asp Ile Thr Met Leu Lys Gly Trp  
 1 5 10 15

Pro Trp Leu Val Val Ser Lys Trp Arg Gly Glu Leu Val Leu Pro Trp  
 20 25 30

Leu Leu Trp Val Ser Pro Tyr Thr Ser Phe  
 35 40

<210> 157  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (75)..(75)  
 <223> X=any amino acid

<400> 157

Met Arg Pro Thr Pro Cys Pro Met Trp Lys Ala Lys Ser Pro Pro Arg  
 1 5 10 15

Asp Trp Val Ser Ala Val Arg Glu Leu His Glu Leu Glu Gly Lys Gln  
 20 25 30

Thr Glu Arg Ser Gly His Trp Ala Val Ser Arg Leu Pro Ala Pro Arg  
 35 40 45

Thr Glu Gln Thr Val Thr Arg Thr Ala Asn Lys Ala Arg Arg Glu Ala  
 50 55 60

Leu Lys Gly Gly Gln Ser Gly Arg Ala Leu Xaa Leu Thr  
 65 70 75

<210> 158  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 158

Thr Leu Cys Cys Pro Gly Ala Ser Ala Thr Val Arg Ser Arg Ile Thr  
 1 5 10 15

Ala Ala Ser Asn Ser Trp Leu Gln Ala Leu Leu Leu Pro Arg Pro Pro  
 20 25 30

Glu Ala Leu Gly Leu Gln Ala

35

<210> 159  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 159

Met Ser Leu Arg Ala Val Val Glu Ala Ala Val Val Ala Val Val Gly  
 1 5 10 15

Ala Ala Val Val Ala Val Val Ala Ala Ala Val Val Ser Ala Ser Gly  
 20 25 30

Ala Ser Ser Ser Ala Gly Pro Val Ala Gly Tyr Val Ser Ala Gly Ala  
 35 40 45

Ala Val Val Gly Phe Ser Glu Cys Thr Lys His Pro Val Cys Phe Gln  
 50 55 60

Ser Phe Phe Ser Val Phe Ser Leu  
 65 70

<210> 160  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 160

Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu  
 1 5 10 15

Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro  
 20 25 30

Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala  
 35 40 45

Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala  
 50 55 60

Ala Ser Thr Thr Ala Arg Lys Thr Phe Gln Phe  
 65 70 75

<210> 161  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 161

Met Glu Arg Gln Ile Asn Ser Asn Asn Leu Gln Ser Asp Thr Ile Arg  
 1 5 10 15

Phe Ala Phe Trp Asp Gln Ala Trp Trp Leu Thr  
 20 25

&lt;210&gt; 162

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

Leu Ser Leu Phe Phe Cys Leu Phe Phe Leu Arg Arg Ser Leu Pro Leu  
 1 5 10 15

Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala Pro Cys Asn Leu  
 20 25 30

Arg Leu Pro Gly Ser Asn Gly Ser Pro Ala Ser Ala Ser Ala Val Ala  
 35 40 45

Gly Ile Thr Gly Arg Asp Tyr Asn Ala Gln Leu Phe Phe Val Phe Leu  
 50 55 60

Val Glu Thr Gly Phe His Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu  
 65 70 75 80

Thr Cys Asp Pro Pro Ala Ser Ala Ser Gln Cys Ala Gly Ile Thr Gly  
 85 90 95

Val Ser His His Ala Trp Pro  
 100

&lt;210&gt; 163

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

Met Ala Ser Phe Ser Asp Ser Phe Gly Asn Phe Phe Leu Ser Cys Met  
 1 5 10 15

Phe Leu Ser Ile Trp Ser Leu Asn Tyr Ile Cys Val Val Phe Phe Lys  
 20 25 30

Trp Ser Phe Ser Tyr Tyr Met Phe His Ser Lys  
           35                          40

<210> 164  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 164

Met Asp Ile Lys Tyr Lys Thr Ser Phe Ser Tyr Ser Leu Met Phe Leu  
 1                  5                  10                  15

Trp Leu Ser Phe Pro Leu Lys Gly Trp Phe Cys  
           20                          25

<210> 165  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 165

Met Arg Pro Leu Cys Arg Thr Thr Lys Val Ile Leu Asn Leu Asn Leu  
 1                  5                  10                  15

Gly Val Asn Val Gly Thr Glu Gly Phe Lys Phe Glu Val His Cys Asn  
           20                          25                  30

Ile Gln Gly Leu Pro Ala Tyr Ser Trp His Gly Trp Lys Asp Ala Thr  
           35                          40                  45

Ser Ile Phe Thr Thr Leu Ile Lys Ala Ser Met Ser Gly Glu His Lys  
           50                  55                  60

Met Gln Asn Asn Gly Cys Thr Thr Gly Asn Gly Gly Gln Cys Lys Gly  
 65                  70                  75                  80

Thr Pro Ser Phe Glu  
                   85

<210> 166  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 166

Met Ala Pro Ala Ser Arg Glu Gly His Ile Thr Arg Gln Asp Asp His  
 1                  5                  10                  15

100

Ser Tyr Gln Ser Ala Trp Leu Trp Asp Pro Leu Met Met Arg Cys Asn  
20 25 30

Pro Asp Leu Ile Ala Glu Ala Thr Gly Pro Lys Asp Cys Ser Phe Leu  
35 40 45

Leu Gly Cys  
50

<210> 167  
<211> 144  
<212> PRT  
<213> Homo sapiens

<400> 167

Met Cys Gly Leu Ser Arg Gly Ile His Ser Leu Gly Arg Glu Thr Leu  
1 5 10 15

Lys Ala Gly Leu Val Pro Thr Ala Gly Asp Glu Leu Val Glu Gly Leu  
20 25 30

Glu Arg His Ser Ser Gly Cys Thr Gly Gly Cys Gly Ala His Arg Ile  
35 40 45

Gln Gln Arg Arg Thr Gly Ala Ala Arg Glu Gly Phe Trp Glu Glu Leu  
50 55 60

Glu Thr Gln Thr Gly Gln Arg Leu Ala Gly Met Trp Trp Gly Thr Gly  
65 70 75 80

Gly Leu Ser Leu Val Glu Glu Thr Thr Thr Ala Lys Val Glu Asn Pro  
85 90 95

Trp Arg Arg Ser Leu Thr Trp Pro Glu Gln Arg Glu Glu Glu Gly Gln  
100 105 110

His Ser Glu Pro Gly Pro Gln Gly Thr Gly Ala Pro Trp Asn Leu Trp  
115 120 125

Pro Lys Met Arg Asp Ala Thr Lys Gly Glu Phe Tyr Phe Asp Glu Glu  
130 135 140

<210> 168  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>



<221> MISC\_FEATURE  
 <222> (21)..(36)  
 <223> X=any amino acid

<400> 168

Met Trp Ala Ala Ile Cys Ile Ile Phe Val Ile Gln Lys Arg Asp Ile  
 1 5 10 15

Lys Leu Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Ile His Leu Phe Arg Trp Glu Cys  
 35 40

<210> 169  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 169

Met Asn Leu Phe Leu Cys Lys Ser Val Lys Tyr Ser Leu Asn Thr Cys  
 1 5 10 15

Val Pro Gln Leu Gly Leu Glu Asn Ala Lys Thr Val Met Ser Ala Glu  
 20 25 30

Phe Leu Cys Tyr Lys Val Ser Trp Val Arg His Pro Tyr Arg Ile Glu  
 35 40 45

Thr Thr Arg Lys  
 50

<210> 170  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 170

Met Cys Phe Ser Gln Ser Trp Gln Lys Gln Leu Thr Ile Leu Val Leu  
 1 5 10 15

Thr Val Asn Arg Val Pro Lys Arg Val Tyr Arg Thr Gly Thr His Phe  
 20 25 30

Gly Asp Cys Cys Pro Lys Ala Leu Ser Phe Leu Phe Thr His Phe Gly  
 35 40 45

102

Val Leu Leu Trp Phe Leu Phe Gln Lys Ile Phe Leu Ser Phe Ile Ile  
50 55 60

Leu Phe Leu Ser Ser Val Met Ser Ser  
65 70

<210> 171  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 171

Met Leu Arg Arg Tyr Met Pro Phe Ser Leu Ser Phe Ala His Lys Cys  
1 5 10 15

Thr Val Glu Phe Gly His Ser Ile Lys Glu Arg Ile Tyr Gly Leu Ser  
20 25 30

Pro Arg Ala Asn Lys Ile Leu Phe Ala Phe Gln Leu Pro Ile Ser Met  
35 40 45

Ser Phe His Phe Leu His Met Leu Leu Pro  
50 55

<210> 172  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (4)..(5)  
<223> X=any amino acid

<400> 172

Met Xaa Ser Xaa Xaa Leu Asn Leu Gly Leu Ile Gly Ser Leu Thr Tyr  
1 5 10 15

Arg Leu Ser Trp Lys Met Ser His Val Tyr Leu Gly Arg Met Cys Ile  
20 25 30

Leu Leu Leu Leu Gly Thr Val Phe Cys Val Pro Trp  
35 40

<210> 173  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 173

Met Asp Leu Glu Ile Leu Thr Phe Ile Lys Glu Asn Ser Ser Leu Val  
 1 5 10 15

Glu Thr Ser Leu Glu Arg Pro Lys  
 20

<210> 174  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (26)..(26)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (68)..(68)  
 <223> X=any amino acid

<400> 174

Met Pro Val Lys Leu Leu Ser Tyr Ser Leu Pro Val Gly Gly Ser Gln  
 1 5 10 15

Cys Glu Val Trp Ser Pro Gly Thr Arg Xaa Thr Trp Ala His Ser Leu  
 20 25 30

His Thr Gly Ala Gly Lys Gly Gln Arg Glu Leu Gln Thr Gly Lys Trp  
 35 40 45

Met Val Trp Gly Arg Ser Pro Ala Pro Val Thr Ser Cys Glu Ser Leu  
 50 55 60

Ser Gln Thr Xaa Gly  
 65

<210> 175  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 175

Met Leu Pro Asn Ile Asp Ile Asp Ser Leu Gly Glu Ile Leu Ser Lys  
 1 5 10 15

Tyr Lys Ile Leu His Val Gln Gln Leu Asn Val Ile Asn Glu Phe His  
 20 25 30

Ile Tyr Leu His Asp Ile Phe Glu Ile Lys Leu Ile Ile Leu Leu  
 35 40 45

<210> 176  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 176

Met Leu Thr Lys Ser Ser His Tyr Leu Phe His Gly Thr Val Glu Ile  
 1 5 10 15

Arg His Pro Lys Val Ser Lys Thr Phe Lys Gln Gln Arg Leu Pro Met  
 20 25 30

Gln Gly Ile His Trp Gly Lys Gly Gly Ala Gln Val Leu Pro Leu Leu  
 35 40 45

Cys Asn Met Lys Pro Val Thr Lys Thr Ala Gly Glu Ser Leu Tyr Phe  
 50 55 60

Thr Leu  
 65

<210> 177  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 177

Phe Phe Phe Phe Leu Ala Arg Trp Gly Leu Ile Met Leu Pro Arg Leu  
 1 5 10 15

Val Ser Asn Ser Trp Ala Gln Ala Ile Leu Leu Pro Arg Pro Pro Lys  
 20 25 30

Met Leu Gly Phe Glu Ala Ala Ala Thr Thr Pro Ser Asp Lys Ser Leu  
 35 40 45

Phe Phe Lys Ile Ile His Tyr Pro  
 50 55

<210> 178  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 178

Met Ile Ser Gly Asn Glu Glu Leu Asp Phe Ser Leu Glu Phe Ala Ser  
 1 5 10 15

Thr Leu Leu Trp Gln Ile Ser Val Gly Ser Leu Ser Thr Leu Ser Ala  
 20 25 30

Arg Gly Asn Leu Phe Tyr Gln Thr Gly Cys  
 35 40

<210> 179  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 179

Met Tyr Gln Tyr Phe Ile Thr His Gly Val Leu Lys Ile Gln Phe Lys  
 1 5 10 15

Asn Thr Val Phe His Met Ser Tyr Lys Val Leu Glu Lys Lys Phe  
 20 25 30

<210> 180  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 180

Met Leu Val Met Thr Ile Phe Thr Asn Thr Thr Ser Tyr His Tyr Pro  
 1 5 10 15

Leu Lys Leu Thr Val Leu Glu Lys His Ser Asn Trp Asp Ser Ser Ile  
 20 25 30

Lys Gly Asn Leu Val Phe  
 35

<210> 181  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 181

Met Arg Pro Tyr Glu Arg Thr Pro Ser Asn Ser Pro Pro Gln Tyr Lys  
 1 5 10 15

Pro Leu Ile Leu  
 20

<210> 182  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 182

Met Pro Lys Arg Leu Thr Gln Ile Lys Gly Pro Met Asn Asp Gly Cys  
 1 5 10 15

Tyr Cys Ser Tyr Cys Tyr Asp Phe Ala Thr Phe Leu Thr Tyr Pro Ser  
 20 25 30

Leu Asn Ile Leu Cys Ser Met Ala Ile Pro Arg Asp Gly Ile Lys Thr  
 35 40 45

Lys Glu Lys Leu Ser Phe Ser Thr Ser Asn Phe Ser Ser Ser Lys Ala  
 50 55 60

Tyr Val Gly Pro  
 65

<210> 183  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 183

Ser Phe Phe Phe Phe Phe Glu Thr Arg Ser Cys Phe Val Ala Arg  
 1 5 10 15

Ala Gly Glu Arg Trp Tyr Asp His Gly Ser Leu Ala Pro Leu Pro Pro  
 20 25 30

Arg Leu Lys Gln Ser Ser His Leu Ser Leu Ala Gly Thr Trp Asp Tyr  
 35 40 45

Arg Tyr Lys Cys His Cys Ala Gln Leu Ile Phe Val Phe Phe Cys Glu  
 50 55 60

Thr Gly Phe His His Val Ala Gln Ala Gly Leu Lys Phe Leu Gly Ser  
 65 70 75 80

Ser Asn Pro Pro Ala Ser Thr Ser Gln Ser Pro Gly Ile Thr Gly Met  
                             85                            90                            95

Ser His His Thr Cys Ser Ser Phe Leu Leu Phe Ala Ile Gln His Leu  
                             100                            105                            110

Leu Gln Tyr  
                             115

<210> 184  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 184

Met Trp Met Cys Ile Leu Ser Gly Ser Met Ile Phe Pro Gly Pro Glu  
   1                            5                            10                            15

Cys Asp Arg Ser Gly Pro Ala Ile Glu Leu Gln Ala His Arg Pro Ala  
                             20                            25                            30

Ala Ala Leu Gly Cys Ile Ala Arg Leu Leu Ser Ser Cys Leu Val His  
                             35                            40                            45

Met Met Pro Gly Leu  
                             50

<210> 185  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 185

Met Lys Asn Lys Met Thr Leu Leu His Ile Lys Leu Leu Phe Ile Trp  
   1                            5                            10                            15

Lys Asn Gln Cys Cys Phe Lys Val Ala Cys Ser Thr Ser Ser Leu Thr  
                             20                            25                            30

Tyr Thr Lys Thr  
                             35

<210> 186  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 186

Met Thr Thr Val Leu Ile Asn Val Gly Tyr Gln Lys Ile Pro Arg Ser  
 1 5 10 15

His Leu Trp Cys Thr Leu Asn  
 20

&lt;210&gt; 187

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

Met Gln Arg Asn Thr Pro Arg Thr Gly Glu Ser Glu Ser Met Ser Val  
 1 5 10 15

Thr Arg Ile Asn Ala Asp Glu Ala Glu Thr Arg Asn Ile Lys Phe Arg  
 20 25 30

Ile Ala Ser Ser Arg Arg Ile Lys Val Ile Phe Val Ile Lys Leu Lys  
 35 40 45

His Lys Gln Ile Glu His Cys Ile Val  
 50 55

&lt;210&gt; 188

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 188

Met Asn Cys Arg Arg Thr Arg Trp Arg Ser Val Val Tyr Ser Trp Asp  
 1 5 10 15

Leu Ser Leu Val Leu Ala Cys  
 20

&lt;210&gt; 189

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (9)..(10)

&lt;223&gt; X=any amino acid

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE



<222> (18)..(18)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (26)..(26)  
 <223> X=any amino acid

<400> 189

Met Met Thr Ala Phe Thr Ser Cys Xaa Xaa Thr Lys Tyr Lys Asn Gln  
 1 5 10 15

Lys Xaa Ile Asn Asn Gly Asp Phe Met Xaa His Lys Leu Ile Arg Tyr  
 20 25 30

Leu Met Leu Cys Leu Val Ala Val  
 35 40

<210> 190  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 190

Met Asn Asp Gln Thr Cys Gly Leu Pro Cys Ser Ala Val Ser Glu Arg  
 1 5 10 15

Leu Asp Pro Gln Pro Arg Thr Gly Pro Leu Ser Gly Met His Gln Arg  
 20 25 30

Arg Asn Trp Arg His Thr Gly Ala Gly Ala Ala Pro Gly Leu Arg Ala  
 35 40 45

Phe Pro Ala Leu Ser Val Tyr Pro Arg Met Glu Met Phe Thr Phe Leu  
 50 55 60

Phe Phe Thr Leu Asn Met  
 65 70

<210> 191  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 191

Met Leu Val Glu Cys Leu Val Asn Asn Glu Ser Tyr Ser Leu Trp Ser  
 1 5 10 15

Gln Gly Ser His Lys Pro Thr Gly Gln Ile Leu Cys Ile Leu Val Ser  
                   20                  25                  30

Tyr Met Thr Ser Lys Phe Met Asn Leu Leu Asn Ser Phe His Thr Thr  
                   35                  40                  45

Gln Asp Ala Ser Phe Trp  
           50

<210> 192  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 192

Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser Leu Gln Pro Pro Pro  
   1                  5                  10                  15

Ser Gly Phe Lys Gln Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp  
                   20                  25                  30

Tyr Arg Arg Val Pro Pro Arg Pro Ala Asn Phe Ala Ile Phe Ser Arg  
                   35                  40                  45

Asp Arg Val Ser Pro His Trp Leu Gly Trp Ser Arg Thr Pro Gly Leu  
           50                  55                  60

Val Phe His Leu Pro Gln Pro Pro Lys Met Leu Gly Leu Gln  
   65                  70                  75

<210> 193  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 193

Met Ser Asp Gly Arg Asp Leu Gly Arg Gln Pro Pro Leu Ile Leu His  
   1                  5                  10                  15

His Gln Pro Gly Leu Gly Thr Trp Leu Leu Phe Leu Ser Ala Val Ser  
                   20                  25                  30

Gly Gly Pro Trp Pro Thr His Lys Pro Phe Cys Gln His Leu Ala Phe  
                   35                  40                  45

Gln Leu Thr Ser Thr Gln Gly Leu Cys Asp Phe Arg Arg Arg Gln Leu  
           50                  55                  60

Gly Arg Val Arg Ala Val Pro Gly Arg Ala Gln Thr Ser Ala Gln Thr  
65 70 75 80

Ser Tyr Pro Pro Pro Thr Pro Arg Pro Arg Gly Phe Gln Ser Asn Gln  
85 90 95

His His Gln Ala Pro Gly His Trp Lys Lys Asn Leu Cys Lys Glu Ala  
100 105 110

Arg Gly His Leu Arg Lys Ser Arg Ser Pro Lys Leu Met  
115 120 125

<210> 194

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (6)..(35)

<223> X=any amino acid

<400> 194

Met Ala Glu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Ile Gln Ser Ile Phe Phe Asp His Met Arg Ile Lys Ile  
35 40 45

Gly Asn Ser His Arg Asn Ile Ser Glu Ile Ser Leu Asn Ile His Lys  
50 55 60

Leu Asn Ser Thr Phe Gln Asp Gln Lys Glu Ile Lys Arg Glu Ile Arg  
65 70 75 80

Lys Tyr Ile Glu Gln Asn Gln Asn Glu Asn Val Arg Ile Cys Gly Val  
85 90 95

Thr Pro Lys Asn Val Cys Arg Lys Lys Gln His Lys Met Pro Asn Leu  
100 105 110

Lys Lys Lys Asn Leu Asn Ser Val Thr Trp Ser  
115 120

<210> 195  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 195

Met Phe Val Leu Asn Thr Ile Leu Ile Asp Ile Tyr Cys Pro Leu His  
 1 5 10 15

Thr Cys Glu His Ile Phe Val Phe Glu Tyr Arg Tyr Leu Leu Asn Lys  
 20 25 30

Ile

<210> 196  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 196

Met His Phe Gln Arg Arg Lys Asn Glu Asn Leu Ser Phe Lys Met Tyr  
 1 5 10 15

Ser Val Met Leu Asn Val Tyr Gly Leu Lys  
 20 25

<210> 197  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 197

Met Thr Ser Gln Pro Ile Pro Arg Thr Pro Ser Asn Thr Leu Gln Phe  
 1 5 10 15

Ala Ile Cys Val Glu Val Arg Arg Leu Val Ile His Lys Ile Thr  
 20 25 30

<210> 198  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (17)..(17)  
 <223> X=any amino acid

&lt;400&gt; 198

Met Lys Leu Ile Ser Gln Lys Ile Ser Ile Lys His Leu Leu Tyr Gly  
 1 5 10 15

Xaa Asn Thr Ala Thr His  
 20

&lt;210&gt; 199

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 199

Met Arg Val Leu Pro Pro Val Phe Ser Ala Pro Lys Cys Ser Asn Glu  
 1 5 10 15

Lys Pro Met Lys Ser Lys Tyr Ile Ile Tyr Met Leu Lys Tyr Phe Val  
 20 25 30

Ile Ile Lys His  
 35

&lt;210&gt; 200

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 200

Met Leu Leu Tyr Cys Leu His Ile Lys Leu Trp Ala Tyr Phe Cys Val  
 1 5 10 15

Phe Glu Leu Gly Val His Pro Thr His His Val His Phe Gly Tyr Thr  
 20 25 30

Lys Val Phe Thr Leu Pro Ile Ser Arg Glu His Tyr Thr Cys Asn Arg  
 35 40 45

Leu

&lt;210&gt; 201

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

Met Cys Lys Cys Gly Lys Val Pro Leu Glu Asn Leu Ile Arg Val Val

1                      5                      10                      15  
  
 <210> 202  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 202  
  
 Met Glu Val Thr Pro Gly Glu Lys Ile Leu Arg Asn Thr Lys Glu Gln  
 1                      5                      10                      15  
  
 Arg Asp Leu His Asn Arg Leu Arg Glu Ile Asp Glu Lys Leu Lys Met  
                     20                      25                      30  
  
 Met Lys Glu Asn Val Leu Glu Ser Thr Ser Arg Leu Ser Glu Glu Gln  
                     35                      40                      45  
  
 Leu Lys Cys Leu Leu Asp Glu Cys Ile Leu Lys Gln Lys Ser Ile Ile  
                     50                      55                      60  
  
 Lys Leu Ser Ser Glu Arg Lys Lys Glu Asp Ile Glu Asp Val Thr Pro  
 65                      70                      75                      80  
  
 Val Phe Pro Gln Leu Ser Arg Ser Ile Ile Ser Lys Leu Leu Asn Glu  
                     85                      90                      95  
  
 Ser Glu Thr Lys Val Gln Lys Thr Glu Val Glu Asp Ala Asp Met Leu  
                     100                      105                      110  
  
 Glu Ser Glu Glu Cys Glu Ala Ser Lys Gly Tyr Tyr Leu Thr Lys Ala  
                     115                      120                      125  
  
 Leu Thr Gly His Asn Met Ser Glu Ala Leu Val Thr Glu Ala Glu Asn  
                     130                      135                      140  
  
 Met Lys Cys Leu Gln Phe Ser Lys Asp Val Ile Ile Ser Asp Thr Lys  
 145                      150                      155                      160  
  
 Asp Tyr Phe Met Ser Lys Thr Leu Gly Ile Gly Arg Leu Lys Arg Pro  
                     165                      170                      175  
  
 Ser Phe Leu Asp Asp Pro Leu Tyr Gly Ile Ser Val Ser Leu Ser Ser  
                     180                      185                      190  
  
 Glu Asp Gln His Leu Lys Leu Ser Ser Pro Glu Asn Thr Ile Ala Asp  
                     195                      200                      205

Glu Gln Glu Thr Lys Asp Ala Ala Glu Glu Cys Lys Glu Pro  
 210 215 220

<210> 203  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 203

Met Val Cys Asp Phe Arg Asp Gln Ile Ile Asn Gly Ile Val Ala Ser  
 1 5 10 15

Ala Leu Phe Ser Leu Leu Cys His Ser Leu Trp Gly Lys Ser Ala Asp  
 20 25 30

Thr Arg Glu Asp Ala Gln Val Ala Leu Trp Arg Gly Pro Arg Gly Asp  
 35 40 45

Gly Leu Arg Leu Ser Pro Ala  
 50 55

<210> 204  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 204

Met Leu Pro Gly Ser Pro Ala Gly Glu Ala Val Ala Gly Trp Gly Val  
 1 5 10 15

Ala Pro Cys Gln Leu Pro Trp Ala Trp Asp Cys Arg Gln Pro Pro Pro  
 20 25 30

Gly Gly Gly Trp Arg Glu Ala Arg Val Arg Arg Val Arg Lys Ala Ser  
 35 40 45

Pro Ala Leu Gly Ser Gly Lys Gly Pro Glu Glu Pro Gly Arg  
 50 55 60

<210> 205  
 <211> 330  
 <212> PRT  
 <213> Homo sapiens

<400> 205

Asn Cys His Arg Met Lys Pro Ala Leu Phe Ser Val Leu Cys Glu Ile  
 1 5 10 15

Lys Glu Lys Thr Val Val Ser Ile Arg Gly Ile Gln Asp Glu Asp Pro  
 20 25 30

Pro Asp Ala Gln Leu Leu Arg Leu Asp Asn Met Leu Leu Ala Glu Gly  
 35 40 45

Val Cys Arg Pro Glu Lys Arg Gly Arg Gly Gly Ala Val Ala Arg Ala  
 50 55 60

Gly Thr Ala Thr Pro Gly Gly Cys Pro Asn Asp Asn Ser Ile Glu His  
 65 70 75 80

Ser Asp Tyr Arg Ala Lys Leu Ser Gln Ile Arg Gln Ile Tyr His Ser  
 85 90 95

Glu Leu Glu Lys Tyr Glu Gln Ala Cys Arg Glu Phe Thr Thr His Val  
 100 105 110

Thr Asn Leu Leu Gln Glu Gln Ser Arg Met Arg Pro Val Ser Pro Lys  
 115 120 125

Glu Ile Glu Arg Met Val Gly Ala Ile His Gly Lys Phe Ser Ala Ile  
 130 135 140

Gln Met Gln Leu Lys Gln Ser Thr Cys Glu Ala Val Met Thr Leu Arg  
 145 150 155 160

Ser Arg Leu Leu Asp Ala Arg Arg Lys Arg Arg Asn Phe Ser Lys Gln  
 165 170 175

Ala Thr Glu Val Leu Asn Glu Tyr Phe Tyr Ser His Leu Asn Asn Pro  
 180 185 190

Tyr Pro Ser Glu Glu Ala Lys Glu Glu Leu Ala Arg Lys Gly Gly Leu  
 195 200 205

Thr Ile Ser Gln Val Ser Asn Trp Phe Gly Asn Lys Arg Ile Arg Tyr  
 210 215 220

Lys Lys Asn Met Gly Lys Phe Gln Glu Glu Ala Thr Ile Tyr Thr Gly  
 225 230 235 240

Lys Thr Ala Val Asp Thr Thr Glu Val Gly Val Pro Gly Asn His Ala  
 245 250 255



117

Ser Cys Leu Ser Thr Pro Ser Ser Gly Ser Ser Gly Pro Phe Pro Leu  
260 265 270

Pro Ser Ala Gly Asp Ala Phe Leu Thr Leu Arg Thr Leu Ala Ser Leu  
275 280 285

Gln Pro Pro Pro Gly Gly Gly Cys Leu Gln Ser Gln Ala Gln Gly Ser  
290 295 300

Trp Gln Gly Ala Thr Pro Gln Pro Ala Thr Ala Ser Pro Ala Gly Asp  
305 310 315 320

Pro Gly Ser Ile Asn Ser Ser Thr Ser Asn  
325 330

<210> 206  
<211> 72  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (3)..(5)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (12)..(12)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (17)..(17)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (28)..(28)  
<223> X=any amino acid

<400> 206

Met Asn Xaa Xaa Xaa Thr Ala Met Leu Ile Ser Xaa Glu Gly Lys Asn  
1 5 10 15

Xaa Gln Gly Asn Cys Lys Lys His Asn Tyr Arg Xaa Tyr Thr Ile Met  
20 25 30

Met Ile Thr Ile His Ala Leu Gln Asn His Arg Tyr Ile Tyr Ile Leu  
35 40 45

Leu Lys Ile His Gln Leu His Trp Ser Ser Thr Tyr Tyr Val Glu Arg  
 50 55 60

Lys Tyr Leu Arg Lys Phe Lys Leu  
 65 70

<210> 207  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 207

Met Tyr Ala Leu Ser Val Arg Ala Leu Ser Met Val Thr Ala Leu His  
 1 5 10 15

Asp Val Ser Gly His Tyr Ser Asp Gln Lys Lys Gly Gln Tyr Val Leu  
 20 25 30

Lys Gly Cys Glu Glu Val Ser Val Ser Trp Cys Thr Trp Thr Arg Glu  
 35 40 45

Pro Leu Ile Pro Phe Val Ala Ser Arg His Leu Val Thr Thr  
 50 55 60

<210> 208  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 208

Met Thr Gly Phe Leu Leu Cys Ser Ser Gln Leu Asn Phe Phe Phe Lys  
 1 5 10 15

Ile Leu Phe Cys Lys Ser Phe Leu Arg Ser Pro Cys Lys Pro Phe Ala  
 20 25 30

Gln Ser

<210> 209  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 209

Met Pro His Glu Gly Gly Asp Leu Arg Leu Ser Leu Gly Arg Glu Ala  
 1 5 10 15

Lys Lys Arg Cys Gln Ala Ala His Gly Gln Arg Cys Ser Cys His Thr  
                   20                  25                  30

Glu Phe Ser Val Leu Gly Ile Phe Val Thr Lys Ile Ala Glu Asp Ser  
           35                  40                  45

Gly Ser Tyr Val Ala Cys Thr Arg Gly Ala Pro Ala Pro Thr Val Pro  
       50                  55                  60

Ala Gly Pro Leu Lys Ser Ala Ser Leu Leu Ala Glu Pro Ser Val Ala  
   65                  70                  75                  80

Pro Trp Trp Pro Arg Arg Ser Pro Asp Leu Ala Glu Ser  
                   85                  90

<210> 210  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 210

Phe Phe Ala Asp Thr Arg Ser His Ser Val Ala Ala Ala Gly Val Gln  
   1                  5                  10                  15

Trp His Asp Tyr Ser Ser Leu Ala Pro Gln Thr Pro Gly Leu Lys Gln  
           20                  25                  30

Ser Ser Cys Leu Ser Pro Leu Ser Ser  
       35                  40

<210> 211  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (63)..(81)  
 <223> X=any amino acid

<400> 211

Met Gln Pro Gly His Phe Arg Gly Gly Ser Val Cys Ala Ala Glu Glu  
   1                  5                  10                  15

Ser Arg Asp Lys Trp Glu Arg Gly Ser Gln Ala Lys Gly Pro Ala Cys  
           20                  25                  30

Ala Lys Ala Gln Arg Leu Gln Ser Ala Cys Ala Ile Ser Pro Gly Gln  
 35 40 45

Glu Thr His Leu Pro Glu Arg Arg Pro Glu Ala Val Thr Ala Xaa Xaa  
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 65 70 75 80

Xaa Arg Phe Leu Asn Pro Ala Met Ser Gly Glu Phe Gln Ile Ala Lys  
 85 90 95

Ser Cys Cys

<210> 212  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 212

Met Ala Ala Thr Cys His Thr Val Ser Pro His Glu Gly Gly Gly Val  
 1 5 10 15

Leu Ser Ala Val Ile Ile Tyr Thr Trp Leu Glu Asp Leu Gln Asp Arg  
 20 25 30

Asn Phe Leu Lys Ile Pro Leu His Ser Asp Tyr Glu Ser Lys Ile Tyr  
 35 40 45

Ser Leu  
 50

<210> 213  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 213

Met Arg His Pro Leu Ile Val Trp Pro Gly Leu Val Ser Gly Ser Ala  
 1 5 10 15

Arg Arg Val Leu Leu Gly Trp Ala Val Phe Leu Pro Ser Gly Ser Asp  
 20 25 30

Gly Gly Ser Glu Pro Trp Pro Pro Leu Gly Gly His Ala Val Gln Pro  
 35 40 45

Gly Gln Leu Pro Gly Val Cys Pro Gly His Cys Tyr Gly Leu Arg Arg  
 50 55 60

Val Thr Gly Arg Tyr Gln Ile Ser Pro  
 65 70

<210> 214  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 214

Arg Pro Gln Glu Arg Leu Glu Asp Val Glu Gln Lys Trp Ile Leu Pro  
 1 5 10 15

Cys Asp Arg Gln Leu Arg Lys Gln Ser Val Ile Thr Lys Ser Phe Ser  
 20 25 30

Phe Leu Phe Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Leu  
 35 40 45

Ala Leu Ser Ala Arg Leu Glu Cys Ser Gly Met Ile Leu Ala His Cys  
 50 55 60

Asn Leu Cys Leu Thr Gly Ser Ser Asn Ser Pro Ala Ser Ala Ser Arg  
 65 70 75 80

Val Ala Gly Ile Thr Gly Met Cys His His Ala Ala Pro Ile Phe Val  
 85 90 95

Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu  
 100 105 110

Leu Leu Thr Ser Gly Asn Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly  
 115 120 125

Ile Thr Gly Val Ser His His Thr Arg Pro Thr Lys Ser Phe Phe  
 130 135 140

<210> 215  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 215

Met Thr Thr Lys Ile Met Leu Gln Arg Asp Asn Ile Leu Ile Lys Phe

122

1                    5                    10                    15  
Cys Val Leu Leu Gln Tyr Leu Val Phe Lys Ile Ser Glu Leu Ser Leu  
                  20                    25                    30  
Gln His Phe Thr Asn Asn Lys Trp Leu Met Leu Glu Asn Asn Arg Asn  
                  35                    40                    45  
Asp Leu Phe Arg Pro His Val Asn Pro Cys Val Lys Asp Lys Gln Val  
                  50                    55                    60

Phe  
65

<210> 216  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 216

Met Lys Glu Gly Ser Leu Gly Arg Leu Val Tyr Lys Leu Gln Lys Leu  
1                    5                    10                    15

His Gln Pro His Pro Ser Ser Ser Pro Cys Ser Ser Asn Asn Ile Thr  
                  20                    25                    30

Gly Phe Leu Cys Val Lys Thr Phe Phe  
                  35                    40

<210> 217  
<211> 26  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (11)..(12)  
<223> X=any amino acid

<220>  
<221> MISC\_FEATURE  
<222> (14)..(16)  
<223> X=any amino acid

123

<400> 217

Met Pro Lys Arg Xaa Gln Ala Tyr Thr His Xaa Xaa Ala Xaa Xaa Xaa  
1 5 10 15

Ser Phe Asn Ser His His Gln Phe Val Arg  
20 25

<210> 218

<211> 38

<212> PRT

<213> Homo sapiens

<400> 218

Met Phe Val Ile His Val Tyr Val Lys Leu Lys Lys Tyr Thr His Pro  
1 5 10 15

Asn Leu Leu Gly Ile Pro Ser Leu Lys Ile Asn Leu Ile Tyr Ile His  
20 25 30

Arg Asn Ile Asn Thr Gly  
35

<210> 219

<211> 26

<212> PRT

<213> Homo sapiens

<400> 219

Met Val Cys Ser Ile Leu Arg Ala Thr Ser Phe Ala Met Ser Asn Thr  
1 5 10 15

Phe Glu Ile His Pro Tyr Phe Ser Val Tyr  
20 25

<210> 220

<211> 107

<212> PRT

<213> Homo sapiens

<400> 220

Phe Phe Phe Phe Leu Gly Arg Ser Phe Val Leu Leu Pro Arg Leu Glu  
1 5 10 15

Cys Asn Gly Ala Val Trp Ala His Cys Asn Leu Cys Leu Pro Gly Ser  
20 25 30

Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Thr Gly Ala  
35 40 45

His His Gln Val Trp Leu Ile Phe Val Phe Leu Val Glu Met Gly Leu  
 50 55 60

Thr His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asn Pro  
 65 70 75 80

Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His His  
 85 90 95

Ala Gln Pro Glu Cys Thr Phe Ile Ala Ala Val  
 100 105

<210> 221  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 221

Met Ser Phe Val Leu Phe Val His Leu Phe Leu Ser Val Ala His Ser  
 1 5 10 15

Pro Arg Phe Leu Cys Leu Thr Phe Ile His Ser Ala Gly Leu Leu His  
 20 25 30

His Ser Pro Asn Pro Leu Asp Ala Cys Val Gly Pro Gly Val Asn Ser  
 35 40 45

Leu Ser Pro Met Val Pro Arg Glu Gly Leu Gly Ser Ser Ala Trp Ser  
 50 55 60

Gln Ser Leu Pro Thr Arg Tyr Cys Leu Lys Lys  
 65 70 75

<210> 222  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (25)..(25)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (28)..(50)  
 <223> X=any amino acid



&lt;400&gt; 222

Met Tyr Tyr Thr Leu Asp Ile Glu Leu Asp Val Phe Pro Ile Ser Glu  
 1 5 10 15

His Leu Thr Tyr Thr Lys Ile Leu Xaa His Gly Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Asn Val Lys  
 50

&lt;210&gt; 223

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 223

Met Gly Gly Gly Ala Ser Gln Arg Arg Trp Gln Glu Thr Arg Ala Cys  
 1 5 10 15

Gln Gly Cys Thr Leu Cys Phe Tyr Leu Arg Ala Ser Leu Asp Gly Lys  
 20 25 30

Thr Asp Gly Asp Cys Gly Leu Asn Ala Ser Asn Pro Leu Leu Lys Met  
 35 40 45

Thr Thr Gly Cys Ser Thr Ser Thr  
 50 55

&lt;210&gt; 224

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

Met Lys Arg Ile Asn Phe Val Gly Lys Ser Lys Trp Leu Leu Lys Ile  
 1 5 10 15

Gln Ile Lys Pro Val Lys Ile Lys Tyr Arg Gln Asn  
 20 25

&lt;210&gt; 225

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

Met Asn Ile Leu Gly Val Gly Ser Glu Cys Ile Arg Arg Phe Asn Lys  
 1 5 10 15

Ala Val Trp Gly Ile Asn Ile Lys Ser Lys Gly Phe Ile Leu Ile Leu  
 20 25 30

Arg Ser Val Lys Tyr Thr Pro Thr Leu Arg  
 35 40

&lt;210&gt; 226

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

Met Thr Trp Ser Gln Met Lys Gly His Phe Asp Pro Phe Phe Asp Phe  
 1 5 10 15

Asn Pro Lys Leu Ser Ala Asn Met Phe Tyr Phe Leu Ala Lys Val Ile  
 20 25 30

Leu Asp Ala Thr Trp His Tyr Ile Lys Asn Phe Asn Val Leu Glu Ser  
 35 40 45

Tyr Val Leu Asp Ser Lys Glu Leu Leu Trp Gly  
 50 55

&lt;210&gt; 227

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

Met Glu Ser Lys Asn Phe Pro Pro Pro Thr Pro Thr Val Phe Gln Cys  
 1 5 10 15

His Asn Tyr Lys Val Ser Leu Lys Tyr Tyr Leu Ile His Ser Asn Lys  
 20 25 30

Ser Lys Gly Phe Val Ser Ser Trp Phe Tyr Cys  
 35 40

&lt;210&gt; 228

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

Gly Leu Gln Ala Ala Ala Thr Thr Leu Ser Gln Lys Ile Val Phe Lys  
 1 5 10 15

Gly Ser Phe Arg Leu Tyr Pro Glu Lys Val Ser Tyr Ala Ile Phe Phe  
 20 25 30

Ser Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala  
 35 40 45

Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro  
 50 55 60

Ala Ser Ala Ser Ala Val Ala Gly Thr Val Gly Met Tyr His His Ala  
 65 70 75 80

Gln Leu Ile Phe Ile Phe Leu Val Glu Met Gly Phe Cys His Ile Gly  
 85 90 95

Gln Ala Gly Leu Lys Leu Leu Asn Ser Ser Asp Thr Pro Thr Leu Ala  
 100 105 110

Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Gly Pro  
 115 120 125

&lt;210&gt; 229

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

Met Tyr His Leu Asp Asn His Leu Thr Leu Phe His Thr Ala Gln Leu  
 1 5 10 15

Tyr Ser Arg Asn His Leu Gln Leu Leu Lys Lys Val Ser Glu Ile Gln  
 20 25 30

Ser Tyr Phe Tyr Ser Gly Lys Glu Val Pro Ser Ile Val Thr Ser  
 35 40 45

&lt;210&gt; 230

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

Met Arg Leu Trp Cys Val Ser Glu Ser Leu Arg Glu Ala Val Phe Ser  
 1 5 10 15

Lys Gln Val Gly Leu Cys Trp Thr Asp  
 20 25

<210> 231  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 231

Met Ile Cys Leu Glu Val Asn Leu Asn Pro Leu Tyr Pro Phe Asn Leu  
 1 5 10 15

Glu Ile Ala Ser Phe Arg Ser Trp Lys Val Pro Phe Pro Leu Ser Leu  
 20 25 30

Ser Phe Leu Ser Gly Thr Leu Ile Val Lys Asn Trp Thr Ser Leu Ile  
 35 40 45

<210> 232  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 232

Met Thr Pro Gly Ala Gln Ser His Val Leu Ile Gln Asn His Trp Phe  
 1 5 10 15

Lys Cys Pro Cys Gly Arg Cys Lys Phe Pro Gly Asn Leu Leu Arg Gln  
 20 25 30

Asn Gly Leu Trp Gln Leu Lys Ser Ser Pro Leu Thr Asp Thr Gly Ile  
 35 40 45

Gly Cys Gly Gly Glu Ser Thr Pro Gly Ala Met Cys Val Lys Arg Leu  
 50 55 60

Met Asn Ser Ser Ser Tyr Gly Trp Ser Ala Asp Ile Met Cys Tyr Leu  
 65 70 75 80

Tyr Ile Asp Leu Leu Asn Phe Ser Phe Ser Ala Met  
 85 90

<210> 233  
 <211> 35  
 <212> PRT

<213> Homo sapiens

<400> 233

Met Asn Lys Cys Lys Tyr Ser Phe Asn Tyr Asn Tyr Ser His Ala Ser  
1 5 10 15

Leu Ile Ile Leu Ile Phe Val Gly Arg Lys Gln Val Ser Asn Val Phe  
20 25 30

Leu Ile Lys  
35

<210> 234

<211> 33

<212> PRT

<213> Homo sapiens

<400> 234

Met Gly Ser Ile His Thr Phe Tyr Asn Pro Glu Ile Gln Ala Ile Leu  
1 5 10 15

Val Thr Thr Asn Ala Leu Phe Trp Arg Ile Val Val Arg Trp Lys Lys  
20 25 30

Asn

<210> 235

<211> 105

<212> PRT

<213> Homo sapiens

<400> 235

Asn Ala Gln Phe Phe Phe Cys Tyr Val Val Phe Glu Thr Gly Ser Arg  
1 5 10 15

Ser Ala Ala Gln Ala Gly Val Gln Trp Gln Asp His Gly Leu Leu Gln  
20 25 30

Pro Ala Pro Pro Gly Leu Lys Gln Phe Ser Leu Leu Ser Leu Gln Ser  
35 40 45

Ser Trp Asp Tyr Arg Gln Val Pro Pro Arg Leu Thr Asn Phe Ala Ile  
50 55 60

Phe Cys Arg Asp Gly Val Ser His Leu Ala Gln Ala Gly Leu Glu Leu  
65 70 75 80

100

105

5

20

35

40

5

20

25

5

20

35

40

45

Lys His Ser Leu Ser Cys Val Thr Tyr Pro Cys Thr Cys Pro Ser Leu  
50 55 60

Leu Thr Ile Asn Ser Leu Trp Ala Asp Thr Val Ser Pro Thr Leu Gly  
65 70 75 80

Pro His Arg Ala Pro Ala Gln Thr Leu Pro Ser Val Leu Leu Leu Thr  
85 90 95

Ala Thr

<210> 239  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 239

Arg Lys Lys Ile Leu Lys Phe Leu Glu Thr Asn Glu Asn Gly Asn Thr  
1 5 10 15

Thr Tyr Ala Asn Leu Gln Asp Thr Ala Lys Thr Val Leu Ala Arg Lys  
20 25 30

Phe Ile Ala Lys Ser Ala Tyr Ile Lys Lys Val Glu Lys Leu Gln Ile  
35 40 45

Asn Asn Leu Lys Met Asn Leu Lys Glu Leu Glu  
50 55

<210> 240  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 240

Met Leu Arg Lys His Phe Asp Trp Arg Gln Arg Thr Lys Ser Tyr Ser  
1 5 10 15

Ile Asn Ser Thr Ser Ser Val Leu Arg Ser Gln Lys Asp His Asp Leu  
20 25 30

Val Tyr Ile His Ile Phe Leu Ile Lys Glu Glu Gly Tyr Tyr Ser Arg  
35 40 45

Asn Leu Tyr Lys Ile  
50

<210> 241  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 241

Met Gly Arg Lys Leu His Arg Thr Ser Leu Asn Gln Arg Met Glu Lys  
 1 5 10 15

Asp Thr Leu Arg Ile Gly Lys Val Glu Lys Ser Gln Arg Gly Met Leu  
 20 25 30

His Tyr Glu Ala Phe Gly Gln Trp Ala Thr Gln Gly  
 35 40

<210> 242  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 242

Met Leu Val Arg Ile Leu Ala Phe Thr Leu Pro Gln Val Thr Glu Gly  
 1 5 10 15

Arg Gly Asn Ser Gly Met Ile Thr Glu Glu Gln Leu Lys Arg Ser Lys  
 20 25 30

Pro Gln Arg Lys Cys Phe Leu Ala Ser Ile Ser Leu Tyr Val Lys Arg  
 35 40 45

Val Asn Ile Arg Ser His Asn Ile Glu His Leu Leu Pro Gly Ala Met  
 50 55 60

Leu Asn Ala Leu His Ala Leu Asn His Ser Phe Asn Lys His Leu Leu  
 65 70 75 80

Ser Thr Cys Tyr Val Gln Val Leu Phe  
 85

<210> 243  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 243

Met Cys Ser Leu Leu His Lys Ala Ser Gln Gln Ser Tyr Asn Val Gly  
 1 5 10 15



Ile Ile Thr Ala Ile Leu Tyr Leu Arg Thr Arg Arg Pro Arg Glu Val  
                   20                                  25                                  30

Lys

<210> 244  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 244

Met Ser Phe Val Arg Thr Thr Leu Thr Leu Gly His Gly Tyr Pro Pro  
   1                  5                                  10                                  15

Thr His Pro Ala Pro Thr Ala Phe Ile His Ser Leu Ser Gln Ala Glu  
                   20                                  25                                  30

Lys Glu Arg Lys Val Phe  
                   35

<210> 245  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(4)  
 <223> X=any amino acid

<400> 245

Met Leu Lys Xaa Leu Ile Phe Phe Val Val Glu Ile Gln Thr Val Ile  
   1                  5                                  10                                  15

Leu Asn Ser Tyr Gln Lys Ser Leu Asn Ser Val Leu Thr Thr Val Asn  
                   20                                  25                                  30

Gly Arg Thr Tyr Ser Pro Leu Ser Phe Cys  
                   35                                  40

<210> 246  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 246

Met Cys Met Glu Asn Asn Glu Tyr Phe Ile Tyr His Tyr Phe Leu Ile  
 1 5 10 15

Tyr Ile His Thr His Lys Phe Ile Ile Leu Ser Leu Met Arg His Gln  
 20 25 30

Phe Tyr Ile Gln Leu Asn Ser His Cys Asn Cys Val Pro Ser Gln Leu  
 35 40 45

<210> 247  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 247

Met Cys Leu Ala Thr Asn Leu Asn Leu Glu Tyr Tyr Leu Ile Tyr Pro  
 1 5 10 15

Phe Leu Pro Ser Pro Arg Ile Lys Arg Asp Ala Val Ile Tyr Phe Leu  
 20 25 30

Lys Ile Trp  
 35

<210> 248  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 248

Phe Arg Phe Ile Phe Phe Phe Phe Leu Arg Gln Ser His Ser Val Ala  
 1 5 10 15

Arg Leu Lys Cys Ser Asp Thr Val Ser Ala His Cys Asn Val Cys Leu  
 20 25 30

Pro Asp Ala Ser Asp Ser Arg Ala Ser Ala Thr Glu Val Ala Gly Ile  
 35 40 45

Thr Gly Met His His His Thr Pro Leu Ile Phe Val Phe Leu Val Glu  
 50 55 60

Thr Glu Phe His His Val Gly Gln Ala Ala Asn Ser Ala Ala Gln Val  
 65 70 75 80

Ile Leu Pro Pro Gln Leu Pro Lys Val Leu Ala Leu Gln Ala  
 85 90

<210> 249  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 249

Met Thr Glu Asp Ile Thr Tyr Thr Ile Ile Ile Thr Tyr Asn Ile Tyr  
 1 5 10 15

Asn

<210> 250  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 250

Leu Leu Gly Ser Ser Asp Pro Pro Ala Ser Ala Ser Gln Val Ala Gly  
 1 5 10 15

Thr Thr Gly Met Phe His His Thr Ser Leu Ile Leu Asn Ile Phe Cys  
 20 25 30

His Tyr Val Pro Gln Pro Gly Leu Lys Leu Leu Ala Ser Thr Ser Pro  
 35 40 45

Pro Ser Leu Thr Ser Gln Ser Val Arg Ile Met Gly Met Ser His Arg  
 50 55 60

Ala Trp Pro Thr Phe  
 65

<210> 251  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(16)  
 <223> X=any amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (18)..(18)  
 <223> X=any amino acid

<400> 251

Met Tyr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Tyr Xaa Thr Ile Trp Leu Ala Ile Tyr Glu Pro Arg Pro Glu Gly Arg  
 20 25 30

Ala Asp Thr Lys Arg Arg Phe Leu Lys Met Ile  
 35 40

<210> 252  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 252

Met Glu Leu Leu Phe Ile Met Lys Ile Pro Lys Ser Ala Ala Glu Ile  
 1 5 10 15

Leu Lys Arg Glu Leu Leu Ile Thr Ile Asn Tyr Thr Ala Gln His Phe  
 20 25 30

Pro Phe Phe Leu Phe Phe Leu Val Pro Met Leu Gly Arg Lys Pro Glu  
 35 40 45

Tyr Glu Gln Glu Leu Phe Tyr Leu Leu Val Glu Lys Gly Gln Phe Ala  
 50 55 60

Val Glu Arg Met Cys Val Ser Ser Val  
 65 70

<210> 253  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 253

Met Val Leu Ile Met Asp Asp Arg Phe Phe Phe Leu Leu Ala Lys Leu  
 1 5 10 15

Glu Val Gly Asn Pro Arg Leu Leu Phe Leu Pro Phe Pro Lys Phe Gln  
 20 25 30

Ser Phe Thr Ser Leu Arg Asn Pro Arg Ile Ser Val Leu Lys Lys Leu  
 35 40 45

Lys Pro Leu Thr Arg Ile Arg Gly Cys Ala  
 50 55

<210> 254  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (29)..(73)  
 <223> X=any amino acid

<400> 254

Met Gly Ile Ser Ile Ser Thr Val Lys Phe Ala Ile His Gln Phe Lys  
 1 5 10 15

Gln Ser Ser Thr Ile Phe Phe Thr Arg Ile Leu Leu Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Tyr Cys Leu Leu  
 65 70 75

<210> 255  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 255

Met Thr Val Phe Leu Met Glu Pro Glu Ile Asn Met Ala Phe Cys Leu  
 1 5 10 15

Pro Pro Asn Leu Cys Ala Ala Ile Ile Asn Val Val Ser Ile Val Leu  
 20 25 30

Gly Ile Gly Phe Val Ser Ala Ser Leu Glu Pro Ala Lys Glu Glu Met  
 35 40 45

Gln Lys Arg Leu Leu Tyr Ser Ser His Ser Ser Leu Lys Ser Ser Ser  
 50 55 60

Phe His Arg Asn Gly Leu Ser Gln Ala Gly Asn Asp Leu Leu His Cys  
 65 70 75 80

Trp Leu

<210> 256  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 256

Met Tyr Asn Ser Ser Gly Thr His Asp Asn Ile Thr Leu Asn Thr Gly  
 1 5 10 15

Gly Leu Ser Ser His Ser Leu Pro  
 20

<210> 257  
 <211> 1031  
 <212> PRT  
 <213> Homo sapiens

<400> 257

Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Ile  
 1 5 10 15

Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val Leu Ser  
 20 25 30

Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly Asp Phe  
 35 40 45

Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys Val Asn  
 50 55 60

Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp Leu Ile  
 65 70 75 80

Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr Phe Phe  
 85 90 95

Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val Gly Ser  
 100 105 110

Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr Asn Tyr  
 115 120 125

Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys Asn Leu  
 130 135 140

Thr Gln Ser Cys Ser Thr Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn  
145 150 155 160

Asp Tyr Trp Val His Asn Glu Met Lys Ala Glu Ile Lys Met Phe Phe  
165 170 175

Glu Thr Asn Glu Asn Lys Asp Thr Thr Tyr Gln Asn Leu Trp Asp Ala  
180 185 190

Phe Lys Ala Val Cys Arg Gly Lys Phe Ile Ala Leu Asn Ala Tyr Lys  
195 200 205

Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu Thr Ser Gln Leu Lys  
210 215 220

Glu Leu Glu Lys Gln Glu Gln Thr His Ser Lys Ala Ser Arg Arg Gln  
225 230 235 240

Glu Ile Thr Lys Ile Arg Ala Glu Leu Lys Glu Ile Glu Thr Gln Lys  
245 250 255

Thr Leu Gln Lys Ile Asn Glu Ser Arg Ser Trp Phe Phe Glu Arg Ile  
260 265 270

Asn Lys Ile Asp Arg Pro Leu Ala Arg Leu Ile Lys Lys Lys Arg Glu  
275 280 285

Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp Ile Thr Thr  
290 295 300

Asp Pro Thr Glu Ile Gln Thr Thr Ile Arg Glu Tyr Tyr Lys His Leu  
305 310 315 320

Tyr Ala Asn Lys Leu Glu Asn Leu Glu Glu Met Asp Thr Phe Leu Asp  
325 330 335

Thr Tyr Thr Leu Pro Arg Leu Asn Gln Glu Glu Val Glu Ser Leu Asn  
340 345 350

Arg Pro Ile Thr Gly Ser Glu Ile Val Ala Ile Ile Asn Ser Leu Pro  
355 360 365

Thr Lys Lys Ser Pro Gly Pro Asp Gly Phe Thr Ala Glu Phe Tyr Gln  
370 375 380

Arg Tyr Lys Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Phe Gln Ser  
 385 390 395 400

Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala Ser Ile  
 405 410 415

Ile Leu Ile Pro Lys Leu Gly Arg Asp Thr Thr Lys Lys Glu Asn Phe  
 420 425 430

Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile  
 435 440 445

Leu Ala Asn Arg Ile Gln Gln His Ile Lys Lys Leu Ile His His Asp  
 450 455 460

Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile Arg Lys  
 465 470 475 480

Ser Ile Asn Val Ile Gln His Ile Asn Arg Ala Arg Asp Lys Asn His  
 485 490 495

Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Gln Gln  
 500 505 510

Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr  
 515 520 525

Phe Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile  
 530 535 540

Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg  
 545 550 555 560

Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn Ile Val Leu Glu Val  
 565 570 575

Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Leu  
 580 585 590

Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu  
 595 600 605

Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn Leu Leu Lys Leu Ile  
 610 615 620



Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser  
625 630 635 640

Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met  
645 650 655

Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Val Lys Tyr Leu Gly  
660 665 670

Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys  
675 680 685

Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys Asn Ile  
690 695 700

Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu  
705 710 715 720

Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu Pro Met  
725 730 735

Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn  
740 745 750

Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys Asn Lys  
755 760 765

Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Thr  
770 775 780

Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile Asp Gln  
785 790 795 800

Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr Asn Tyr  
805 810 815

Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys Asp Ser  
820 825 830

Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys Arg Lys  
835 840 845

Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn Ser Arg  
850 855 860

Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys Thr Leu Glu

865                                      870                                      875                                      880  
 Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Val Asp Lys Asp Phe  
    885                                      890                                      895  
 Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala Lys Ile Asp Lys  
    900                                      905                                      910  
 Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys Glu Thr Thr  
    915                                      920                                      925  
 Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys Ile Phe Ala Thr  
    930                                      935                                      940  
 Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn Glu Leu Lys  
    945                                      950                                      955                                      960  
 Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys Trp Ala Lys  
    965                                      970                                      975  
 Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys  
    980                                      985                                      990  
 His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu Met Gln Ile  
    995                                      1000                                      1005  
 Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile  
    1010                                      1015                                      1020  
 Ile Lys Lys Ser Gly Asn Asn Arg  
    1025                                      1030  
  
 <210> 258  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 258  
  
 Met Gly Lys Ile Gly Gly Gly Leu Asn Phe Val Lys Ile Leu Asn Gln  
 1                                      5                                      10                                      15  
  
 Val Ser Asp Ile Leu Ser Gly Ala  
    20  
  
 <210> 259  
 <211> 46  
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<213> Homo sapiens

<400> 259

Arg Val Gly Tyr Ser Gly Ile Ile Ile Ala Tyr Cys Ser Leu Gln Leu  
1 5 10 15

Leu Cys Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Val Ile Gly Thr  
20 25 30

Ile Gly Met Cys His Cys Thr Trp Leu Leu Leu Ala Ile Leu  
35 40 45

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Met Gly Tyr His Met Gly Arg Arg Met Ser Met Leu Thr Cys Leu His  
1 5 10 15

Arg Ser Phe Phe Leu Phe Leu Tyr Ser His Gln Phe  
20 25

<210> 261

<211> 21

<212> PRT

<213> Homo sapiens

<400> 261

Met Asn Ile Val Lys Arg Lys Ser Pro Lys Tyr Pro Asn Leu Leu Asn  
1 5 10 15

Leu Phe His Ile Glu  
20

<210> 262

<211> 93

<212> PRT

<213> Homo sapiens

<400> 262

Tyr Val Phe Phe Phe Ala Asp Gly Val Ser Leu Leu Ser Pro Arg Leu  
1 5 10 15

Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Cys Thr Pro Gly  
20 25 30

144

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Pro Gly  
35 40 45

Thr His Arg His Pro Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly  
50 55 60

Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Leu Met Ile  
65 70 75 80

Arg Pro His Gln Pro Pro Lys Val Leu Gly Leu Gln Ala  
85 90

<210> 263  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 263

Met Cys Asp Asn His Gly Thr Lys Ser Arg Trp Thr Lys Trp Lys Tyr  
1 5 10 15

Thr Val Val Arg Phe Leu Tyr Arg Ile Leu Asn Gly Val Met Ala Phe  
20 25 30

Lys Ser Asn Leu Trp  
35

<210> 264  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 264

Met Gly Pro Tyr Cys Met Ala Arg Leu Tyr Lys Ser Tyr Phe His Leu  
1 5 10 15

Tyr Ile Ser Glu Lys Arg Leu Pro Ile Ser Ile Val Leu Ser Asp  
20 25 30

<210> 265  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 265

Met Thr Gln Asn Phe Asp Pro Tyr Leu His Val Leu Asn Arg Gln Phe  
1 5 10 15

Pro Pro Leu Gln Lys Ser Pro Pro Pro Trp Lys Ala Pro Thr Leu Pro  
 20 25 30

Arg Val Pro Ala His Glu Ala Phe Ser Gly Ser Pro Ala Lys Val His  
 35 40 45

Cys Cys Pro Leu His Ala Leu Leu Leu Tyr Thr Ala Pro Leu His Ala  
 50 55 60

<210> 266

<211> 76

<212> PRT

<213> Homo sapiens

<400> 266

Gly Ser Ser Asp Ser Pro Ala Ser Thr Ser Gln Val Ala Gly Ile Ile  
 1 5 10 15

Gly Val Cys His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr  
 20 25 30

Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser  
 35 40 45

Asp Pro Pro Thr Ser Ala Ser Gln Thr Ala Gly Ile Thr Gly Val Ser  
 50 55 60

His Arg Ala Gly Pro Leu Thr Ala Cys Ala Thr Phe  
 65 70 75